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KILEY BARREL ALLEN STREET SITE

(Site Identification Code – 01KB)

REMOVAL ACTION ADMINISTRATIVE RECORD FILE AND INDEX

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-W-05-042

TDD NO. 01-12-09-0013

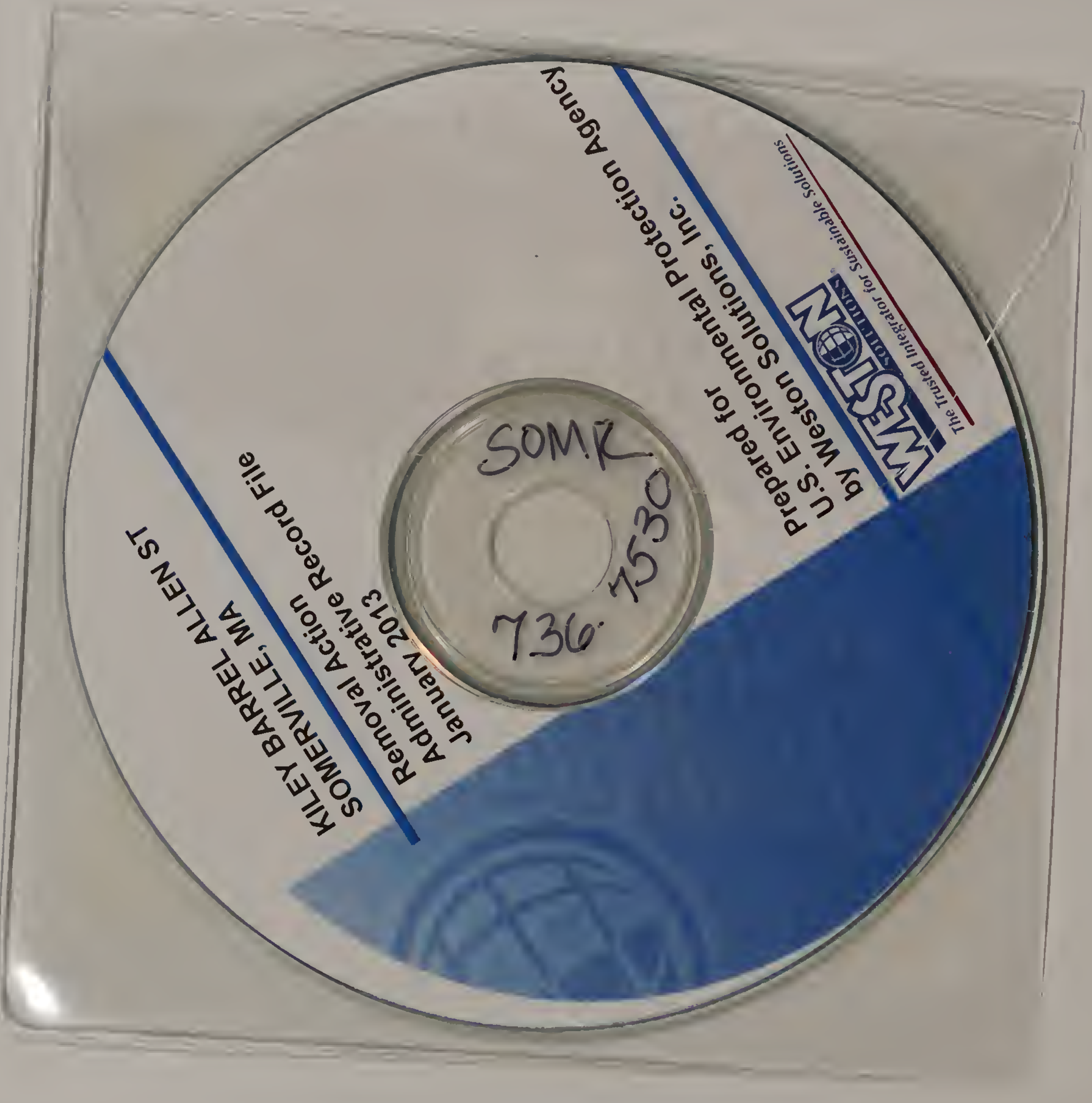
TASK NO. 0841

DC NO. R-7271

Prepared by:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team
3 Riverside Drive
Andover, Massachusetts 01810

January 2013



KILEY BARREL ALLEN ST
SOMERVILLE, MA
Removal Action
Administrative Record File
January 2013

Prepared for
U.S. Environmental Protection Agency
by Weston Solutions, Inc.

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UNIVERSAL
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
5 POST OFFICE SQUARE SUITE 100
BOSTON, MA 02109-3912

15 January 2013

Ms. Rhoda Augarten
Somerville Public Library
79 Highland Avenue
Somerville, Massachusetts 02143

Dear Ms. Augarten,

I would like to thank you for allowing the Somerville Public Library in Somerville, Massachusetts to serve as the field repository for the *Kiley Barrel Allen Street Site Removal Action Administrative Record File*.

The Administrative Record File is a collection of documents that form the basis for the selection of a removal action. According to the Superfund Amendments and Reauthorization Act, the U.S. Environmental Protection Agency (EPA) is required to establish an Administrative Record field repository at or near the removal site.

Enclosed is a copy of the Administrative Record File for the Kiley Barrel Allen Street Site in Somerville, Massachusetts, as well as the "Guide to Removal Site Administrative Records Maintained in Field Repositories."

Please call me at (617) 918-1264, or contact me at caterino.cosmo@epa.gov, if you have any questions.

Sincerely,

Cosmo Caterino
On-Scene Coordinator
EPA Region I

Toll Free • 1-888-372-7341
Internet Address (URL) • http://www.epa.gov/region1
Recycled/Recyclable • Printed with Vegetable Oil Based Inks on Recycled Paper (Minimum 30% Postconsumer)

KILEY BARREL ALLEN STREET SITE REMOVAL ACTION

ADMINISTRATIVE RECORD FILE SIGN-IN SHEET

This sign-in sheet is used for Administrative Record File purposes only.

DATE	NAME (optional)	REPRESENTING (public, media, industry)	COPIES MADE?	COMMENTS
1.				
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Please mail comments to: Administrative Record Coordinator, U.S. EPA Records Center, 5 Post Office Square, Suite 100, Boston, Massachusetts, 02109-3912.

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b30570736

KILEY BARREL ALLEN STREET SITE

(Site Identification Code – 01KB)

REMOVAL ACTION
ADMINISTRATIVE RECORD FILE
AND

INDEX

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
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CONTRACT NO. EP-W-05-042

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Prepared by:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team
3 Riverside Drive
Andover, Massachusetts 01810

January 2013

INTRODUCTION

This document is the Index to the Administrative Record File for the Kiley Barrel Allen Street Site Removal Action. The Index cites site-specific documents and guidance documents used by U.S. Environmental Protection Agency (EPA) staff in selecting a removal action at the site. Specific removal activities include the following:

- Conducting a site walk with the cleanup contractor to assess layout of the Site and to determine required equipment, personnel, and utilities.
- Developing and implementing a site-specific Health and Safety Plan (HASP).
- Developing a site-specific work plan.
- Mobilizing personnel and equipment.
- Clearing vegetation and debris as needed.
- Delineating work zones and decontamination areas.
- Performing air monitoring as needed.
- Excavating contaminated soils and preparing them for off-site disposal.
- Coordinating transportation and disposal (T&D) of hazardous substances to an EPA-approved off-site disposal facility.
- Repairing response-related damages.
- Demobilizing resources.

The Administrative Record File is available for public review, by appointment, at the U.S. EPA Records Center, 5 Post Office Square, Suite 100, Boston, Massachusetts, 02109-3912; and at the Somerville Public Library, 79 Highland Avenue, Somerville, Massachusetts, 02143. Questions concerning the Administrative Record File should be addressed to Cosmo Caterino, EPA On-Scene Coordinator.

The Administrative Record File is required by the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), 42 U.S.C. § 9613 (k), and EPA's implementing regulations, 40 CFR § 300.800.-825.

PLEASE NOTE:
THE DOCUMENTS COMPILED IN THIS ADMINISTRATIVE RECORD FILE HAVE BEEN REPRODUCED FROM THE BEST AVAILABLE COPIES, OR AS PROVIDED IN ELECTRONIC FILES.

SITE-SPECIFIC DOCUMENTS
ADMINISTRATIVE RECORD FILE INDEX
for the
Kiley Barrel Allen Street Site Removal Action

REMOVAL

Correspondence (Site File 2.01)

1. Memorandum from Cosmo Caterino, On-Scene Coordinator, Emergency Response and Removal Section II (ER&R S2), EPA Region I, through Steven Novick, Chief, ER&R S2, EPA Region I, to the Kiley Barrel Allen Street Site File, regarding the Site Investigation Closure at the Kiley Barrel Allen Street Site, 9, 11, & 13 Allen Street, Somerville, MA, 02143, dated 9 August 2012.

Removal Reports (Site File 2.02)

2. "Removal Program Preliminary Assessment/Site Investigation Report for the Kiley Barrel Allen Street Site, Somerville, Middlesex County, Massachusetts, 21 August through 22 August 2012", prepared by Weston Solutions, Inc., Superfund Technical Assessment and Response Team III (START), for EPA Region I, dated January 2013.

Action Memorandum (Site File 2.09)

3. Memorandum from Cosmo Caterino, On-Scene Coordinator, Emergency Response and Removal Section II (ER&R S2), EPA Region I, through Steven R. Novick, Chief, ER&R S2, EPA Region I, and David McIntyre, Acting Branch Chief, Emergency Planning & Response Branch, to James T. Owens III, Director, Office of Site Remediation and Restoration, EPA Region I, regarding a Request for a Removal Action at the Kiley Barrel Allen Street Site, Somerville, Middlesex County, MA, signed by James T. Owens, III, on 14 August 2012. (The Enforcement Section of the Memorandum is withheld as being CONFIDENTIAL.)

COMMUNITY RELATIONS

News Clippings/Press Releases (Site File 13.03)

4. "Administrative Record File Available for the Kiley Barrel Allen Street Site Removal Action", text of the display announcement as it was requested to appear in the *Somerville Journal,* Somerville, Massachusetts.

Please see the following website for more information regarding the Kiley Barrel Allen Street Site, Somerville, Massachusetts:

http://www.epaosc.org/KileyBarrelAllenStreet.

SELECTED KEY GUIDANCE DOCUMENTS

EPA guidance documents may be reviewed at the U.S. EPA Records Center, 5 Post Office Square, Suite 100, Boston, Massachusetts.

1. Comprehensive Environmental Response, Compensation, and Liability Act of 1980, as amended, 42 U.S.C. § 9601 et seq.

2. "National Oil and Hazardous Substances Pollution Contingency Plan," Code of Federal Regulations (Title 40, Part 300) 1990.

3. "Revised Guidance on Compiling Administrative Records for CERCLA Response Actions", U.S. EPA, Office of Site Remediation Enforcement, Office of Superfund Remediation and Technology Innovation, Office of Emergency Management, September 2010.

4. Superfund Amendments and Reauthorization Act of 1986.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION I
5 Post Office Square, Suite 100
Boston, MA 02109-3912

DATE: August 9, 2012

SUBJ: Site Investigation Closure Memorandum
Kiley Barrel Allen Street Site
9, 11,&13 Allen Street
Somerville, MA 02143

FROM: Cosmo Caterino, On-Scene Coordinator
Emergency Response and Removal Section II

THRU: Steven Novick, Chief
Emergency Response and Removal Section II

TO: Kiley Barrel Allen Street Site File

In accordance with section 300.410 of the National Contingency Plan (NCP), a Removal Site Evaluation, consisting of a Preliminary Assessment and Site Investigation (PA/SI), has been initiated at the Kiley Barrel Allen Street Site ("Site") in Somerville, MA. The findings of the Removal Site Evaluation have been evaluated under the criteria set forth in section 300.415 of the NCP, section 104(a) and (b) of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 42 U.S.C. § 9604(a) and (b) and Clean Water Act (CWA) § 311(c)(i) as amended by the Oil Pollution Act (OPA) § 4201(a). The Removal Site Evaluation has led to the determination that a Removal Action is appropriate.

The findings of the Removal Site Evaluation are outlined below.

1. Source and nature of the release or threat of release

   a. The Removal Site Evaluation consisted of the following actions:

      i. Review of analytical results generated by a contractor for the City of Somerville by both EPA Region I and the MassDEP.

      *Note, additional confirmatory sampling will be conducted the week of August 20, 2012, that will also define the extent of contamination.

b. Based on the information available at this time, the principal hazardous substances or pollutants or contaminants that are being released or for which there is threat of release include but are not necessarily limited to the list below.

Hazardous Substances or Pollutants or Contaminants	Media
Arsenic	Soil

2. Evaluation of the threat to public health, welfare and the environment

   a. Federal Agency for Toxic Substances and Disease Registry:

   Threat☐ No Threat☐ Evaluation Not Necessary **X**

   b. Endangerment to the ecosystem:

   Threat☐ No Threat☐ Evaluation Not Necessary **X**

3. The Removal Site Evaluation was terminated pursuant to section 300.410(f) of the NCP for the following reason(s). [Mark all that apply. Do NOT delete the rest.]

- ☐ There is no release.
- ☐ The source is neither a "vessel" nor a "facility" as defined in section 300.5 of the NCP.
- ☐ The release involves neither a hazardous substance, nor a pollutant or contaminant that may present an imminent and substantial danger to public health or welfare of the United States.
- ☐ It is subject to the limitations on response specified in §300.400(b)(1) through (3). The release is
  - ☐ of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found.
  - ☐ from products that are part of the structure of, and result in exposure within, residential buildings or businesses or

community structures.

  - ☐ into public or private drinking water supplies due to deterioration of the system through ordinary use.

- ☐ The amount, quantity, or concentration released does not warrant a Federal response.

- ☐ A party responsible for the release, or any other person, is providing appropriate response, and on-scene monitoring by EPA is not required.

4. As reflected in Section 3, above, the Removal Site Evaluation will be terminated due to its completion, and not for other reasons.

   a. The factors listed below, found in Section 300.415(b)(2) of the NCP, are applicable to this Site.

X Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants.

☐ Actual or potential contamination of drinking water supplies or sensitive ecosystems.

☐ Hazardous substances or pollutants or contaminants in drums, barrels, tanks, or other bulk storage containers, that may pose a threat of release.

X High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface that may migrate.

X Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

☐ Threat of fire or explosion.

X The availability of other appropriate Federal or State response mechanisms to respond to the release.

☐ Other situations or factors that may pose threats to public health or welfare of the United States or the environment.

b. The existence of the conditions specified in Section 4.a., above, indicate that a Removal Action under section 300.415 of the NCP is necessary.

c. In light of the magnitude of the threat or potential threat to health, welfare, or the environment, the appropriate categorization of a Removal Action at this Site is:

Emergency☐ Time-Critical **X** Non Time-Critical☐

5. As reflected in Section 3, above, the Removal Site Evaluation will be terminated due to its completion, and not for other reasons.

a. As found in section 300.410(c)(1) of the NCP, the OSC shall determine whether a release governed by CWA section 311(c)(1), as amended by OPA section 4201(a), has occurred.

☐ There is a release, or potential threat of release, as governed by the CWA as amended by OPA.

X There is not a release, or potential threat of release, as governed by the CWA as amended by OPA.

b. The absence of the conditions specified in Section 5.a., above, indicate that an Oil Spill Response under Appendix E to Part 300 of the NCP **is not** necessary. The only oil present at the site is contaminated with PCBs and is therefore a CERCLA hazardous substance and not governed by CWA section 311(c)(1), as amended by OPA section 4201(a).

cc: Steven Novick, Chief, Emergency Response and Removal Section II, OSRR (w/o attachments)
Meghan Cassidy, Chief, Technical Support & Site Assessment Section, OSRR (w/o attachments)
Patti Ludwig, EPRB, OSRR (w/o attachments)
Kingsley Ndi, MassDEP
Andrew Clark, MassDEP

REMOVAL PROGRAM
PRELIMINARY ASSESSMENT/
SITE INVESTIGATION REPORT
FOR THE
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MIDDLESEX COUNTY, MASSACHUSETTS
21 AUGUST THROUGH 22 AUGUST 2012

Prepared For:

U.S. Environmental Protection Agency
Region I
Emergency Planning and Response Branch
5 Post Office Square, Suite 100
Boston, Massachusetts 02109-3912

CONTRACT NO. EP-W-05-042

TDD NO. 01-12-06-0001

TASK NO. 0808

DC NO. R-7314

Submitted By:

Weston Solutions, Inc.
Region I
Superfund Technical Assessment and Response Team (START)
3 Riverside Drive
Andover, MA 01810

January 2013

TABLE OF CONTENTS

I. Preliminary Assessment/Site Investigation Forms

II. Narrative Chronology

III. Appendices

Appendix A - Figures

Appendix B - Soil Boring Logs

Appendix C - Tables and Spreadsheets

Appendix D - Photodocumentation Log

Appendix E - Chain-of-Custody Records and Analytical Data

I. Preliminary Assessment/Site Investigation Forms

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EPA REGION I
REMOVAL PRELIMINARY ASSESSMENT

Site Name and Location

Name: Kiley Barrel Allen Street Site **Location:** 9, 11, 13, and 17 Allen Street
Town: Somerville **County:** Middlesex **State:** Massachusetts

Site Status: **( ) NPL** **( ) NON-NPL** **( ) RCRA** **( ) TSCA**
( ) ACTIVE **( ) ABANDONED** **(X) OTHER**

( ) Attached USGS Map of Location **(X) Site I.D. No.:** 01KB

Latitude: 42 ° 22 ′ 41.7″ North **Longitude:** 71° 05′ 35.7″ West

Referral

( ) Citizen **( ) City/Town** **(X) State** **( ) Preremedial** **( ) RCRA**
( ) Other:

Name of referring party: Massachusetts Department of Environmental Protection (MassDEP) **Telephone:** (978) 694-3213
Address: 205B Lowell Street, Wilmington, MA

Contacts Identified

1)	Andrew W. Clark	**Telephone:**(978) 694-3213
2)		**Telephone:**( )
3)		**Telephone:**( )

Source of Information

( ) Verbal:
(X) Report: *TRC Environmental Corporation (TRC). 2009. Imminent Hazard Evaluation, Kiley Barrel Site, Somerville, Massachusetts, Release Tracking Number 3-2849. June 5.*
( ) Other:

Potential Responsible Parties

Owner: Former Kiley Barrel Site
Address: 14 Bennet Street
Operator: J. M. Kiley **Telephone:**( )
Address:

REMOVAL PRELIMINARY ASSESSMENT

Site Access

Authorizing Person: Town of Somerville Individual Property Owners of 9, 11, 13, and 17 Allen Street
Telephone: ( )
Date: 13 June 2012, 19 June 2012, and 13 July 2012
(X)Obtained **( )Verbal**
( )Not Obtained **(X)Written**

Historical Preservation

( ) Site is Historically Significant or Eligible for Historic Preservation

Contacts Identified

1) State Historical Preservation Officer (SHPO)
Name: Ms. Brona Simon **Telephone:** (617) 727-8470
2) Tribal Historical Preservation Officer (THPO)
Name: **Telephone:**( )

Comments: The site is not considered historically significant or eligible for historical preservation.

Physical Site Characterization

Background Information: During the early 1920s through 1989, the Former Kiley Barrel Site operated as a business which stored, cleaned, and recycled multi-use barrels. The barrel cleaning operations, which occurred at 14 Bennet Street, involved the direct disposal of liquid wastes into the municipal sewer system. The barrels were then steam-rinsed and painted in preparation for reuse. On 29 October 1989, the Massachusetts Department of Environmental Protection (MassDEP) received information of a release of oil and/or hazardous material at the site and subsequently assigned Release Tracking Number (RTN) 3-2849.

Description of Substances Possibly Present, Known or Alleged: In 1989, IES, Inc. conducted subsurface investigations at the Former Kiley Barrel Site, during which six soil borings were advanced and six monitoring wells were installed. Analytical results of groundwater samples indicated the following contaminants (maximum concentrations in parentheses): tetrachloroethylene (PCE) [5.45 micrograms per Liter (µg/L)] and cyanide [0.013 milligrams per Kilogram (mg/Kg)]. Analytical results of soil samples indicated elevated concentrations of lead, and up to 11,600 mg/Kg of total petroleum hydrocarbons (TPH).

On 28 February 1990, MassDEP granted a "Waiver of Approvals" for the Former Kiley Barrel Site, allowing the former owner, J. Kiley, to conduct comprehensive response actions without the oversight or approval of MassDEP. Since 1990, various assessments and comprehensive responsive activities have been conducted at the Former Kiley Barrel Site. These assessments confirmed the presence of chlorinated hydrocarbons in the groundwater. In April 2006, Environmental Compliance Services, Inc. (ECS) submitted a Phase II Comprehensive Site Assessment report, which concluded that the following contaminants had been detected in soil at concentrations exceeding the Massachusetts Contingency Plan (MCP) Method 1 combined soil category S-1 and groundwater category GW-2/3 standards: extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), arsenic, and lead.

In May 2009, TRC Environmental Corporation (TRC), on behalf of the City of Somerville, conducted sampling activities on the Kiley Barrel Allen Street Site to assess the extent of PCB and metals contamination. Samples were collected from residential properties at 5, 7, 9, 11, and 13 Allen Street, 4 Milk Place, and 250-256 Somerville Avenue. Analytical results of the soil samples indicated that PCBs were detected at concentrations greater than the MCP Method 1 S-1/GW-3 standards on two of the properties. Analytical results also indicated that the following seven metals were detected at concentrations greater than the MCP Method 1 S-1/GW-3 standards (maximum concentrations in parentheses): arsenic (140 mg/Kg); barium (1,500 mg/Kg); cadmium (6.2 mg/Kg); chromium (69 mg/Kg); lead (25,000 mg/Kg); nickel (58 mg/Kg); and zinc (4,100 mg/Kg). Analytical results also indicated that pesticides were detected, but at concentrations below the MCP Method 1 S-1/GW-3 standards.

Existing Analytical Data

( ) Real-Time Monitoring Data:

(X) Sampling Data: In 1989, IES, Inc. conducted subsurface investigations during which six soil borings were advanced and six monitoring wells were installed. In April 2006, ECS submitted a Phase II Comprehensive Site Assessment report, which concluded that the following contaminants had been detected in soil at concentrations exceeding the MCP Method 1 S-1/GW-2/3 standards: EPH, VPH, PAHs, PCBs, arsenic, and lead. In May 2009, TRC conducted sampling activities on the Kiley Barrel Allen Street Site to assess the extent of PCB and metals contamination. Samples were collected from residential properties at 5, 7, 9, 11, and 13 Allen Street, 4 Milk Place, and 250-256 Somerville Avenue.

Potential Threat

Description of potential hazards to environment and/or population-identify any of the criteria for a Removal Action (from NCP) that may be met by the site under 40 CFR 300.415 [b] [2].

i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

ii. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

iii. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

iv. The availability of other appropriate federal or state response mechanisms to respond to the release.

v. Other situations or factors that may pose threats to public health or welfare or the environment.

Prior Response Activities

(X) PRP **( ) STATE** **( ) FEDERAL** **( ) OTHER**

Brief Description: On 28 February 1990, MassDEP granted a "Waiver of Approvals" for the Former Kiley Barrel Site, allowing the former owner, J. Kiley, to conduct comprehensive response actions without the oversight or approval of MassDEP. These response actions were conducted on the Former Kiley Barrel Site at 14 Bennet Street, Somerville, MA.

Priority for Site Investigation

(X) High **( ) Medium** **Low ( )** **None ( )**

Comments:

Report Generation

Originator:	Christine Scesny	**Date:**	29 September 2012
Affiliation:	Weston Solutions, Inc. (START)	**Telephone:**	(978) 552-2107
TDD No.:	01-12-06-0001	**Task No.:**	0808

EPA REGION I
REMOVAL SITE INVESTIGATION

Inspection Information

Site Name: Kiley Barrel Allen Street Site **Address:** 9, 11, 13, 17 Allen Street
Town: Somerville **County:** Middlesex **State:** Massachusetts
Date of Inspection: 21 August 2012 **Time of Inspection:** 0900 to 1600 hours
Weather Conditions: 85 ° Fahrenheit, Sunny
Date of Inspection: 22.August 2012 **Time of Inspection:** 0830 to 1430 hours
Weather Conditions: 86 ° Fahrenheit, Sunny,
Site Status at Time of Inspection: **(X) ACTIVE ( ) INACTIVE**

Comments: The Kiley Barrel Allen Street Site (the site) comprises four residential properties on Allen Street in Somerville, Middlesex County, Massachusetts. The site is bordered by residential properties to the south, commercial and residential properties and Somerville Avenue to the north, Allen Street and residential properties to the east, and the Former Kiley Barrel site to the west.

Agencies/Personnel Performing Inspection

	Names	Program
(X) EPA:	Cosmo Caterino	U.S. Environmental Protection Agency (EPA) Region I, Emergency Planning and Response Branch (EPRB), On-Scene Coordinator (OSC)
(X) EPA Contractor:	Christine Scesny	Weston Solutions, Inc. (WESTON), Superfund Technical Assessment and Response Team III (START)
	Stephanie Bitzas	START
	Colin Cardin	START
	Christine Dupree	START
	Noah Kutsch	START
	Rob Sharp	START
	Andrew Danikas	START
(X) State:	Andrew Clark	Massachusetts Department of Environmental Protection (MassDEP).

Current Owner Based on Field Interview: Residential properties are each individually privately owned.

REMOVAL SITE INVESTIGATION

Physical Site Characteristics

Parameter **Quantities/Extent**

( ) Cylinders:
( ) Drums:
( ) Lagoons:
( ) Tanks: **( ) Above:**
( ) Below:
( ) Asbestos:
( ) Piles:
( ) Stained Soil:
( ) Sheens:
( ) Stressed Vegetation:
( ) Landfill:

(X) Population in Vicinity: The site is located in a mixed residential/commercial section of the City of Somerville. There are on-site residents, and additional residences are located along the northern, eastern, and southern borders of the site.

( ) Wells: **( ) Drinking:**
( ) Monitoring:
( ) Other:

Physical Site Observations

The site is primarily level and consists of four residential properties. The backyards of the residential properties have been covered with geotechnical fabric and approximately 6 inches of gravel.

Field Sampling and Analysis

Matrix/Analytical	**Field Instrumentation**				
Parameter	**CGI/O_2**	**RAD**	**PID**	**FID**	**Other**
Background Readings:	0.0/20.9%	12-15 μR/hr	0.0 ppm	0.0 ppm	
Air:	0.0/20.9%	12-15 μR/hr	0.0 ppm	0.0 ppm	
Soil:	0.0/20.9%	12-15 μR/hr	0.0 ppm	0.0 ppm	

Field Quality Control Procedures

(X) SOP Followed **( ) Deviation From SOP**

Comments: START followed the protocol outlined in the document entitled, *Sampling and Analysis Plan for the Kiley Barrel Allen Street Site, Somerville, Middlesex County, Massachusetts*, dated July 2012.

Description of Sampling Conducted

On 21 August 2012, EPA OSC Cosmo Caterino and START members Stephanie Bitzas, Colin Cardin, Chris Dupree, Noah Kutsch, Christine Scesny, and Rob Sharp mobilized to the site, established a 20-by-20-foot grid over the backyard area of the 13 Allen Street property, advanced soil borings to approximately 3 feet below ground surface (bgs), and classified soil cores using the Burmeister Soil Classification system. A total of 100 surface and subsurface soil samples were collected from 16 locations throughout the property. In addition, a total of eight surface soil samples were collected from two locations in the front yard of the adjacent 17 Allen Street property. START screened six samples on site for arsenic via X-Ray Fluorescence (XRF). A majority of the samples were collected for VOCs, SVOCs, PCBs, and metals analyses. At some locations, samples were collected for metals only, or PCBs and metals, as determined by OSC Caterino.

On 22 August 2012, OSC Caterino, and START members Bitzas, Andrew Danikas, Dupree, Kutsch, Scesny, and Sharp mobilized to the site to continue surface and subsurface soil sampling activities. EPA and START personnel advanced soil borings to approximately 3 feet bgs, and soil cores were classified by a START member using the Burmeister Soil Classification system. A total of 26 samples were collected from three locations at the 11 Allen Street property. A total of 61 samples were collected from five locations at the 9 Allen Street property. A total of 24 samples were collected from two locations at the 17 Allen Street property. START screened 18 samples on site for arsenic via XRF. A majority of the samples were collected for VOCs, SVOCs, PCBs, and metals analyses. At some locations, samples were collected for metals only, or PCBs and metals, as determined by OSC Caterino.

Analyses

Analytical Parameter

(X) VOC
(X) PCB
( ) PESTICIDE
(X) METALS
( ) CYANIDE
(X) SVOC
( ) TOXICITY
( ) DIOXIN
( ) ASBESTOS
( ) OTHER

Media

( ) AIR
( ) WATER
(X) SOIL
( ) SOURCE
( ) SEDIMENT
( ) SOIL GAS

Laboratory

(X) NERL
( ) CLP
( ) PRIVATE
( ) DAS
( ) SOW
(X) FIELD - XRF

Analytical results: [see Appendix B – Summary Tables; Appendix E – Analytical Data]

REMOVAL SITE INVESTIGATION

Receptors

Comments

( ) Drinking Water: **( ) Private:**
( ) Municipal:
( ) Groundwater:
( ) Unrestricted Access:
(X) Population in Proximity: The site consists of four occupied residential properties.
( ) Sensitive Ecosystem:
( ) Other:

Additional Procedures for Site Determination

( ) Biological Evaluation **( ) ATSDR**

To be determined by the OSC.

Site Determination

Depending on further information, criteria that may be met by the site include 40 CFR 300.415 [b] [2], parts:

i. Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances, pollutants or contaminants.

ii. High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate.

iii. Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released.

iv. The availability of other appropriate federal or state response mechanisms to respond to the release.

v. Other situations or factors that may pose threats to public health or welfare or the environment.

Report Generation

Originator:	Christine Scesny	**Date:**	15 November 2012
Affiliation:	Weston Solutions (START)	**Telephone:**	(978) 552-2107
TDD No.:	01-12-06-0001	**Task No.:**	0808

II. Narrative Chronology

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Narrative Chronology

Site Description

The Kiley Barrel Allen Street Site (the site) comprises four residential properties on Allen Street in Somerville, Middlesex County, Massachusetts (MA) (see Appendix A, Figure 1) [1]. The site is bordered by residential properties to the south, commercial and residential properties and Somerville Avenue to the north, Allen Street and residential properties to the east, and the Former Kiley Barrel Site to the west (see Appendix A, Figure 2) [2].

Site Background

During the early 1920s through 1989, the Former Kiley Barrel Site operated as a business which stored, cleaned, and recycled multi-use barrels. The barrel cleaning operations, which occurred at 14 Bennet Street, involved the direct disposal of liquid wastes into the municipal sewer system. The barrels were then steam-rinsed and painted in preparation for reuse. On 29 October 1989, the Massachusetts Department of Environmental Protection (MassDEP) received information of a release of oil and/or hazardous material at the site and subsequently assigned Release Tracking Number (RTN) 3-2849 [3].

In 1989, IES, Inc. conducted subsurface investigations at the Former Kiley Barrel Site, during which six soil borings were advanced and six monitoring wells were installed. Analytical results of groundwater samples indicated the following contaminants (maximum concentrations in parentheses): tetrachloroethylene (PCE) [5.45 micrograms per Liter (µg/L)] and cyanide [0.013 milligrams per Kilogram (mg/Kg)]. Analytical results of soil samples indicated elevated concentrations of lead, and up to 11,600 mg/Kg of total petroleum hydrocarbons (TPH).

On 28 February 1990, MassDEP granted a "Waiver of Approvals" for the Former Kiley Barrel Site, allowing the former owner, J. Kiley, to conduct comprehensive response actions without the oversight or approval of MassDEP. Since 1990, various assessments and comprehensive response activities have been conducted at the Former Kiley Barrel Site. These assessments confirmed the presence of chlorinated hydrocarbons in the groundwater. In April 2006, Environmental Compliance Services, Inc. (ECS) submitted a Phase II Comprehensive Site Assessment report, which concluded that the following contaminants had been detected in soil at concentrations exceeding the Massachusetts Contingency Plan (MCP) Method 1 combined soil category S-1 and groundwater category GW-2/3 standards: extractable petroleum hydrocarbons (EPH), volatile petroleum hydrocarbons (VPH), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs), arsenic, and lead.

In May 2009, TRC Environmental Corporation (TRC), on behalf of the City of Somerville, conducted sampling activities on the Kiley Barrel Allen Street Site to assess the extent of PCB and metals contamination. Samples were collected from residential properties at 5, 7, 9, 11, and 13 Allen Street, 4 Milk Place, and 250-256 Somerville Avenue. Analytical results of the soil samples indicated that PCBs were detected at concentrations greater than the MCP Method 1 S-1/GW-3 standards on two of the properties. Analytical results also indicated that the following seven metals were detected at concentrations greater than the MCP Method 1 S-1/GW-3 standards (maximum concentrations in parentheses): arsenic (140 mg/Kg); barium (1,500 mg/Kg); cadmium (6.2 mg/Kg); chromium (69 mg/Kg); lead (25,000 mg/Kg); nickel (58 mg/Kg); and zinc (4,100 mg/Kg). Analytical results also indicated that pesticides were detected, but at concentrations below the MCP Method 1 S-1/GW-3 standards [3].

Site Activities

On 15 August 2012, EPA On-Scene Coordinator (OSC) Cosmo Caterino and Weston Solutions, Inc. Superfund Technical Assessment and Response Team (START) member Christine Scesny mobilized to the site to conduct a reconnaissance prior to conducting surface and subsurface sampling activities. During the site reconnaissance, OSC Caterino selected locations at which soil borings would be advanced and samples collected.

On 21 August 2012, EPA OSC Caterino, and START members Stephanie Bitzas, Colin Cardin, Christine Dupree, Noah Kutsch, Christine Scesny, and Rob Sharp mobilized to the site to conduct surface and subsurface soil sampling activities.

START personnel established a support zone and calibrated a MultiRAE Plus air monitoring instrument [with carbon monoxide (CO), hydrogen sulfide (H_2S), Volatile Organic Compounds (VOC), oxygen (O_2), and lower explosive limit (LEL) sensors]. Background levels were recorded in the Health and Safety Plan (HASP) as follows: photoionization detector (PID) = 0.0 parts per million (ppm); LEL = 0%; O_2 = 20.9%; CO = 0.0 ppm; and H_2S = 0.0 ppm. START member Scesny conducted a safety and operations meeting, and on-site personnel reviewed and signed the site HASP. The HASP was prepared as a separate document, entitled *Weston Solutions, Inc., Region I START Site Health and Safety Plan (HASP) for the Kiley Barrel Allen Street Site, Somerville, Massachusetts,* dated July 2012.

Sampling activities were performed in accordance with the site sampling and analysis plan (SAP), which was prepared as a separate document, entitled *Sampling and Analysis Plan for the Kiley Barrel Allen Street Site, Somerville, Middlesex County, Massachusetts.* Furthermore, OSC Caterino had previously determined which analyses each sample would be collected and analyzed for based upon sample locations and previous sampling data.

EPA and START personnel established a 20-by-20-foot grid over the backyard area of the 13 Allen Street property, advanced soil borings to approximately 3 feet below ground surface (bgs), and classified soil cores using the Burmeister Soil Classification system (see Appendix B, Soil Boring Log). A total of 100 surface and subsurface soil samples were collected from 16 locations throughout the property. In addition, a total of eight surface soil samples were collected from two locations in the front yard of the adjacent 17 Allen Street property [4-5]. START screened six samples on site for arsenic via X-Ray Fluorescence (XRF). The majority of the samples were collected for VOCs, Semivolatile Organic Compounds (SVOC), PCBs, and metals analyses, while some samples were collected for metals analysis only, or PCBs and metals analyses. See Appendix A, Figures 3A-3D; and Appendix C, Tables 1 through 4.

On 22 August 2012, OSC Caterino, and START members Bitzas, Andrew Danikas, Dupree, Kutsch, Scesny, and Sharp mobilized to the site to continue surface and subsurface soil sampling activities. START personnel established a support zone and calibrated the air monitoring instrument, a MultiRAE. Background levels were recorded in the HASP as follows: PID = 0.0

ppm; LEL = 0%; O_2 = 20.9%; CO = 0.0 ppm; and H_2S = 0.0 ppm. START member Scesny conducted a safety and operations briefing in accordance with the site-specific HASP.

EPA and START personnel advanced soil borings to approximately 3 feet bgs, and soil cores were categorized by a START member using the Burmeister Soil Classification system. A total of 26 samples were collected from three locations at the 11 Allen Street property. A total of 61 samples were collected from five locations at the 9 Allen Street property. A total of 24 samples were collected from two locations at the 17 Allen Street property. START screened 18 samples on site for arsenic via XRF. The majority of the samples were collected for VOCs, SVOCs, PCBs, and metals analyses, while some samples were collected for metals analysis only, or PCBs and metals analyses. See Appendix A, Figures 3A-3D; and Appendix C, Tables 1 through 4.

START member Scesny utilized a Trimble™ Pathfinder Pro XRS Global Positioning System (GPS) unit to record sample locations and site features (see Appendix A, Figures 3A-3D) [6]. In addition, START member Scesny photodocumented sample locations and site features (see Appendix D, Photodocumentation Log).

On 23 August 2012, START personnel completed a chain-of-custody (COC) record to document the history of samples from the time of sample collection through transportation and analysis. The samples were transported to the EPA Office of Environmental Measurement and Evaluation (OEME), located in North Chelmsford, MA, for VOCs, SVOCs, PCBs, and metals analyses (see Appendix E, Chain-of-Custody Record and Analytical Data).

Analytical Data Summaries

On 2 November 2012, START received the analytical results from OEME [7-22].

Analytical results of the soil samples collected from the 9 Allen Street property indicated the following six metals at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): arsenic (420 mg/Kg); barium (1,120 mg/Kg); cadmium (3 mg/Kg); chromium (290 mg/Kg); lead (4,200 mg/Kg); and nickel (38 mg/Kg). In addition, analytical results indicated the following SVOC at a concentration greater than the MCP Method 2 S-1 soil standard (maximum concentration in parentheses): benzo(a)pyrene [4,200 micrograms per Kilogram (μg/Kg)]. Analytical results indicated no PCBs or VOCs at concentrations above the MCP Method 2 S-1 soil standards. See Appendix C, Tables 1 through 4 for a complete summary of the analytical results from OEME.

Analytical results of the soil samples collected from the 11 Allen Street property indicated the following five metals at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): arsenic (140 mg/Kg); barium (1,000 mg/Kg); cadmium (2.7 mg/Kg); chromium (140 mg/Kg); and lead (2,390 mg/Kg). In addition, analytical results indicated the following SVOC at a concentration greater than the MCP Method 2 S-1 soil standard (maximum concentration in parentheses): benzo(a)pyrene (2,900 μg/Kg). Analytical results indicated no PCBs or VOCs at concentrations above the MCP Method 2 S-1 soil standards. See Appendix C, Tables 1 through 4 for a complete summary of the analytical results from OEME.

Analytical results of the soil samples collected from the 13 Allen Street property indicated the following seven metals at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): arsenic (63 mg/Kg); barium (2,020 mg/Kg); cadmium (5.2 mg/Kg); chromium (75 mg/Kg); lead (5,700 mg/Kg); nickel (22 mg/Kg); and zinc (5,300 mg/Kg). In addition, analytical results indicated the following three SVOCs at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): benzo(a)anthracene (8,600 µg/Kg); benzo(a)pyrene (8,500 µg/Kg); and benzo(b)fluoranthene (9,400 µg/Kg). Furthermore, analytical results indicated that one PCB (Aroclor-1254) was detected above the MCP Method 2 S-1 soil standard, at a maximum concentration of 6.2 mg/Kg. Analytical results indicated no VOCs at concentrations above the MCP Method 2 S-1 soil standards. See Appendix C, Tables 1 through 4 for a complete summary of the analytical results from OEME.

Analytical results of the soil samples collected from the 17 Allen Street property indicated the following five metals at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): arsenic (23 mg/Kg); cadmium (11 mg/Kg); chromium (34 mg/Kg); lead (2,700 mg/Kg); and nickel (32 mg/Kg). In addition, analytical results indicated the following five SVOCs at concentrations greater than the MCP Method 2 S-1 soil standards (maximum concentrations in parentheses): benzo(a)anthracene (19,000 µg/Kg); benzo(a)pyrene (17,000 µg/Kg); benzo(b)fluoranthene (14,000 µg/Kg); dibenzo(a,h)anthracene (2,100 µg/Kg); and indeno(1,2,3-cd)pyrene (7,000 µg/Kg). Analytical results also indicated that one PCB (Aroclor-1254) was detected above the MCP Method 2 S-1 soil standard, at a maximum concentration of 19 mg/Kg. Analytical results indicated no VOCs at concentrations above the MCP Method 2 S-1 soil standards. See Appendix C, Tables 1 through 4 for a complete summary of the analytical results from OEME.

REFERENCES

[1] MicroPath/ U.S. Geological Survey (USGS). (7.5-minute series topographic) Quadrangle map: Boston North, Boston South, Massachusetts.

[2] Bing Maps Aerial. 2010. Microsoft Corporation, Available from http://www.bing.com. Internet accessed 21 June 2012.

[3] TRC Environmental Corporation (TRC). 2009. Imminent Hazard Evaluation, Kiley Barrel Site, Somerville, Massachusetts, Release Tracking Number 3-2849. 5 June.

[4] Weston Solutions, Inc. 2011. *Standard Operating Procedure for Surface and Subsurface Soil Sampling*, SOP No. WSI/S3-001, Superfund Technical Assessment and Response Team III (START), Andover, MA. May.

[5] Weston Solutions, Inc. 2011. *Standard Operating Procedure for Operation of the Geoprobe Systems® Soil Probing Machine*, SOP No. WSI/S3-005, Superfund Technical Assessment and Response Team III (START), Andover, MA. May.

[6] Weston Solutions, Inc. 2011. *Standard Operating Procedure for Trimble™ Pathfinder Pro XRS Global Positioning System (GPS) with TSCI Data Logger*, SOP No. WSI/S3-020, Superfund Technical Assessment and Response Team III (START), Andover, MA. May.

[7] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. –VOAs in Soil High Level Method. 30 August.

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[9] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080055. Kiley Barrel Allen St - Somerville, MA. –VOAs in Soil High Level Method. 30 August.

[10] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. BNAs in Soil Medium Level. 6 September.

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[12] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080055. Kiley Barrel Allen St - Somerville, MA. BNAs in Soil Medium Level. 11 September.

[13] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. – PCBs in Medium Level in Soil and Sediments. 18 September.

[14] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. – PCBs in Soil Field Method (Fixed Lab). 27 August.

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[16] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. Metals by XRF. 20 September.

[17] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. Metals in Soil Medium Level by ICP. 20 September.

[18] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080054. Kiley Barrel Allen St - Somerville, MA. Metals in Soil Medium Level by ICP. 20 September.

[19] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080055. Kiley Barrel Allen St - Somerville, MA. Metals in Soil Medium Level by ICP. 20 September.

[20] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. VOAs in Water. 30 August.

[21] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. BNAs in Water. 6 September.

[22] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. PCBs in Water Low Level. 10 September.

[23] U.S. Environmental Protection Agency. 2012. Office of Environmental Measurement and Evaluation. Laboratory Report. Project No. 12080053. Kiley Barrel Allen St - Somerville, MA. Total Recoverable Metals in Water by ICP. 20 September.

III. Appendices

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Appendix A

Figures

Figure 1 - Site Location Map
Figure 2 - Site Diagram
Figure 3A - VOC Sample Location Map
Figure 3B - SVOC Sample Location Map
Figure 3C - PCB Sample Location Map
Figure 3D - Arsenic Sample Location Map

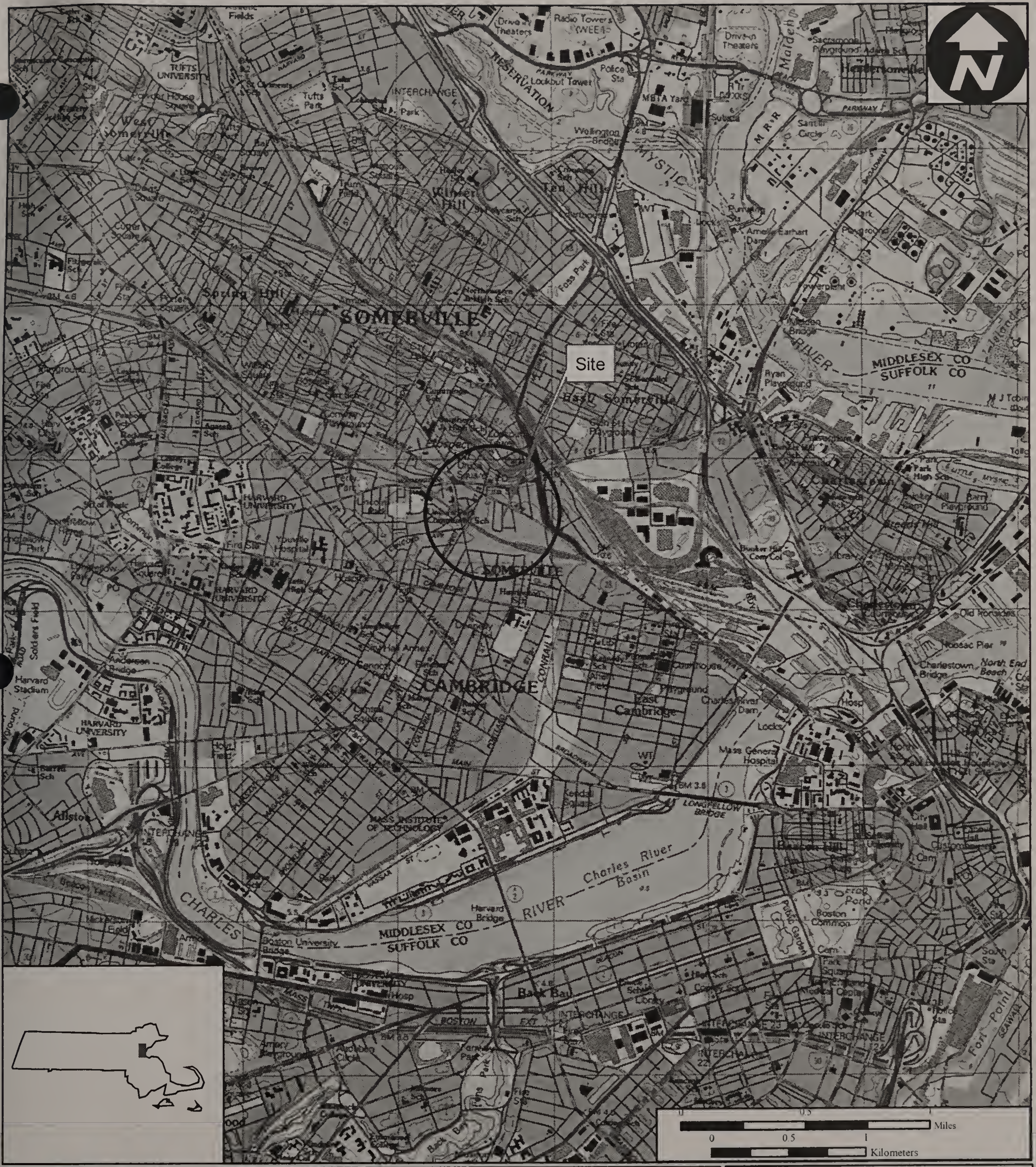

Figure 1

Site Location Map

Kiley Barrel Allen Street Site
9, 11 , 13, 17 Allen Street
Somerville, Massachusetts

EPA Region 1
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number:	12-06-0001
Created by:	Christine Scesny
Created on:	21 June 2012
Modified by:	
Modified on:	

Data Sources:
Topos: Mass GIS
Quadrangle Name: Boston North, Boston South MA
All other data: START

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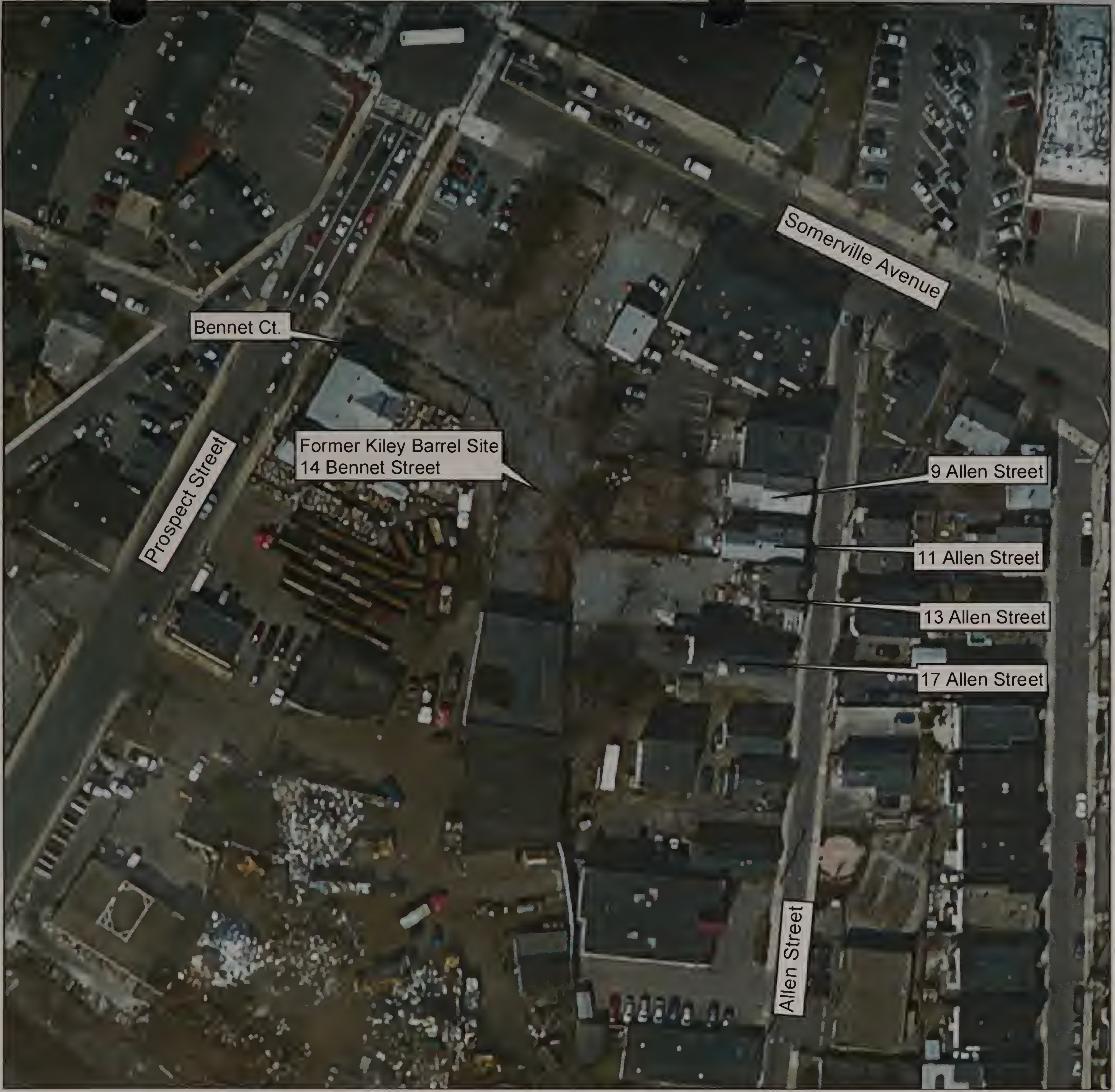

Figure 2

Site Diagram

Kiley Barrel Allen Street Site
9, 11, 13, 17 Allen Street
Somerville, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number: 12-06-0001
Created by: Christine Scesny
Created on: 21 June 2012
Modified by:
Modified on:

LEGEND

N

0 25 50 100
Feet

Data Sources:
Imagery: Bing Maps Aerial
2010 Microsoft Corporation
All other data: START

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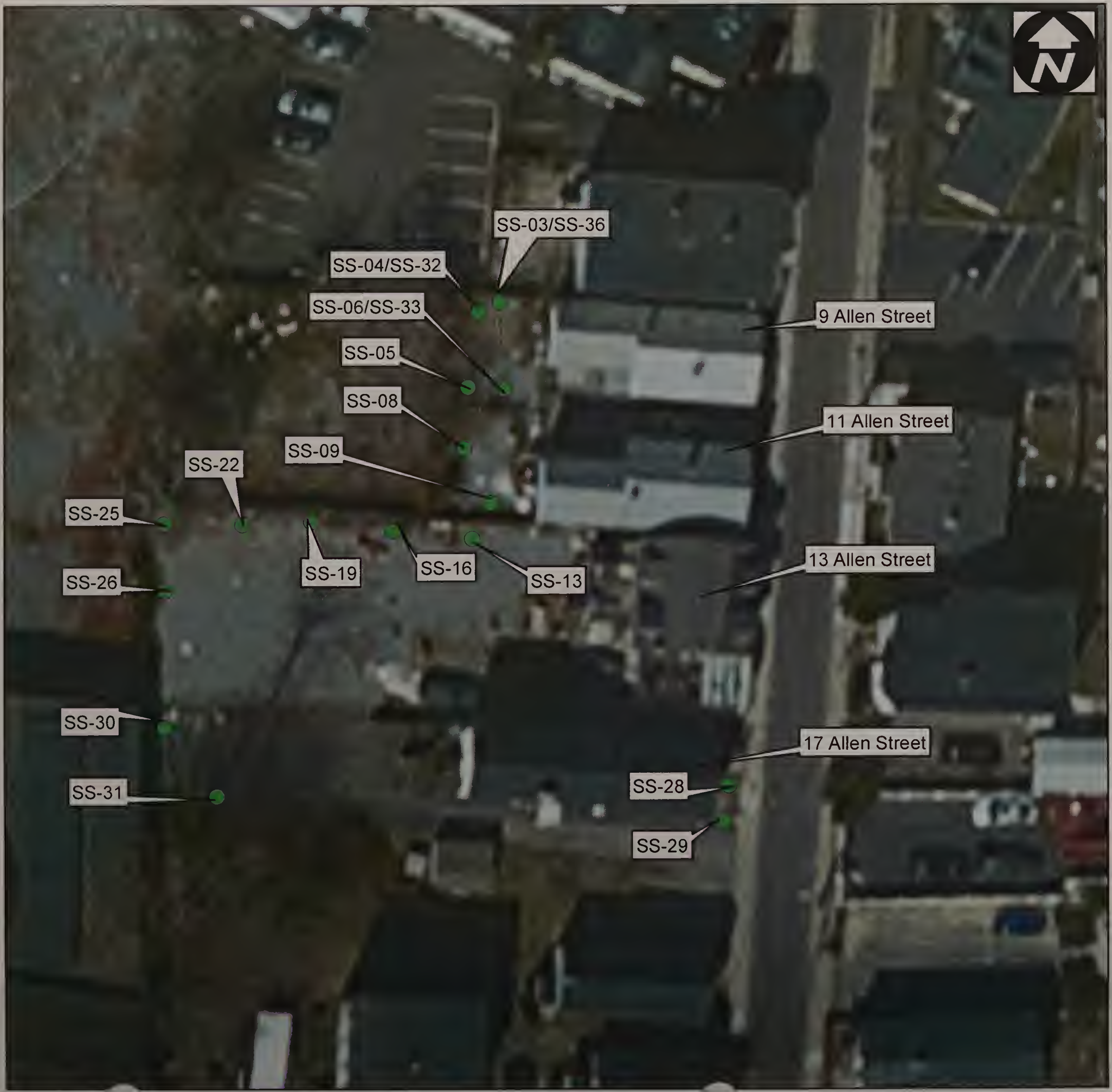

Figure 3A

VOC Sample Location Map

Kiley Barrel Allen Street Site
9, 11, 13, 17 Allen Street
Somerville, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number: 12-06-0001
Created by: Christine Scesny
Created on: 15 October 2012
Modified by:
Modified on:

LEGEND

● Soil Sample Locations

Note: None of the soil sample results exceeded the MCP S-1 soil criteria.

VOC = Volatile Organic Compound

MCP S-1 = Massachusetts Contingency Plan soil category S-1 standard.

Note: Please see Appendix C, Table 1 for details on analytical results.

Data Sources:
Imagery: Bing Maps Aerial
2010 Microsoft Corporation
All other data: START

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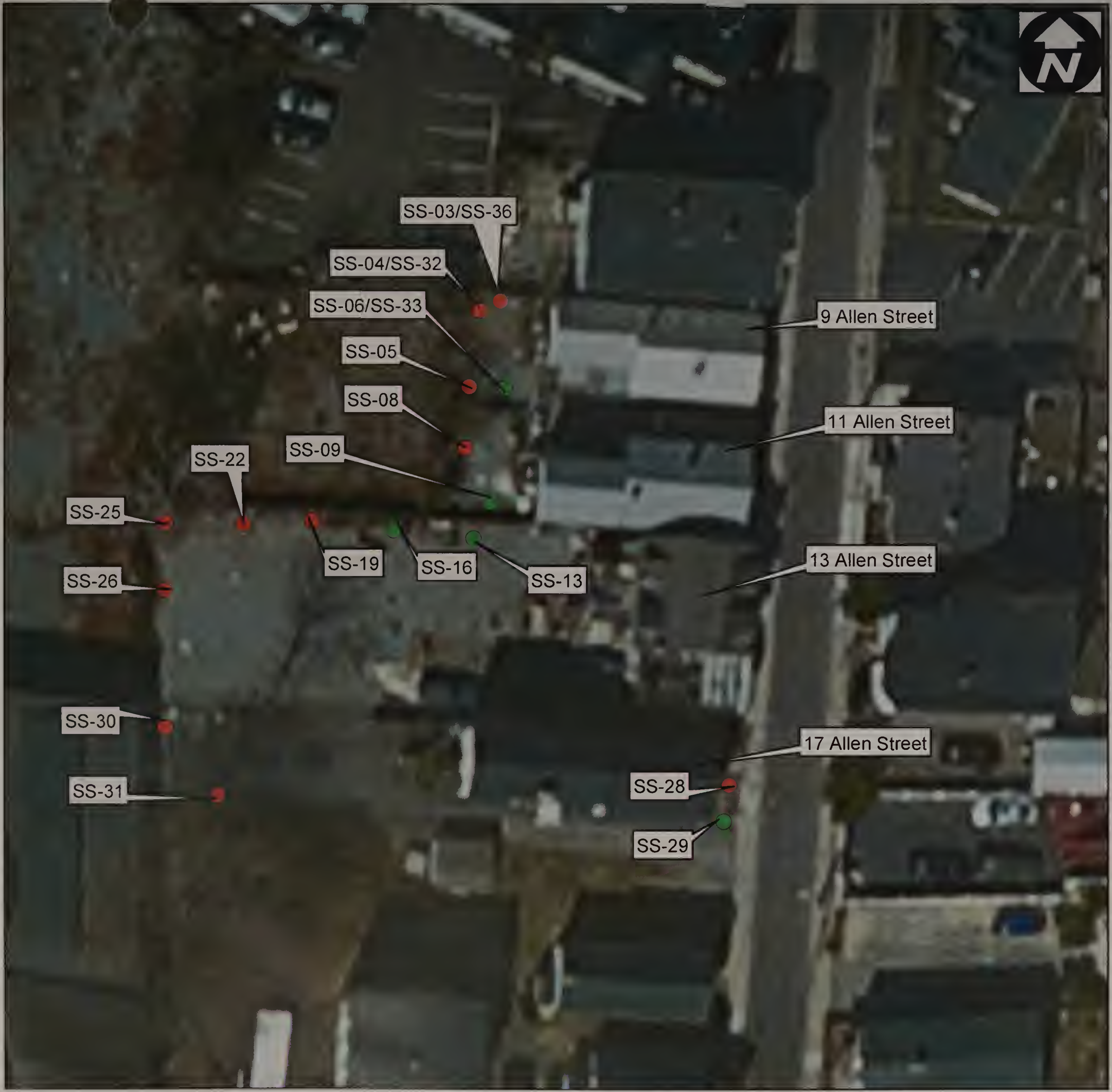

Figure 3B

SVOC Sample Location Map

Kiley Barrel Allen Street Site
9, 11, 13, 17 Allen Street
Somerville, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042
TDD Number: 12-06-0001
Created by: Christine Scesny
Created on: 21 June 2012
Modified by: Christine Scesny
Modified on: 4 October 2012

LEGEND

🔴 SVOC soil sample result exceeds the MCP soil category S-1 standard at this sample location.

🟢 Soil Sample Locations

SVOC = semivolatile organic compound

MCP S-1 = Massachusetts Contingency Plan soil category S-1 standard.

Note: Please see Appendix C, Table 2 for details on analytical results.

Data Sources:
Imagery: Bing Maps Aerial
2010 Microsoft Corporation
All other data: START

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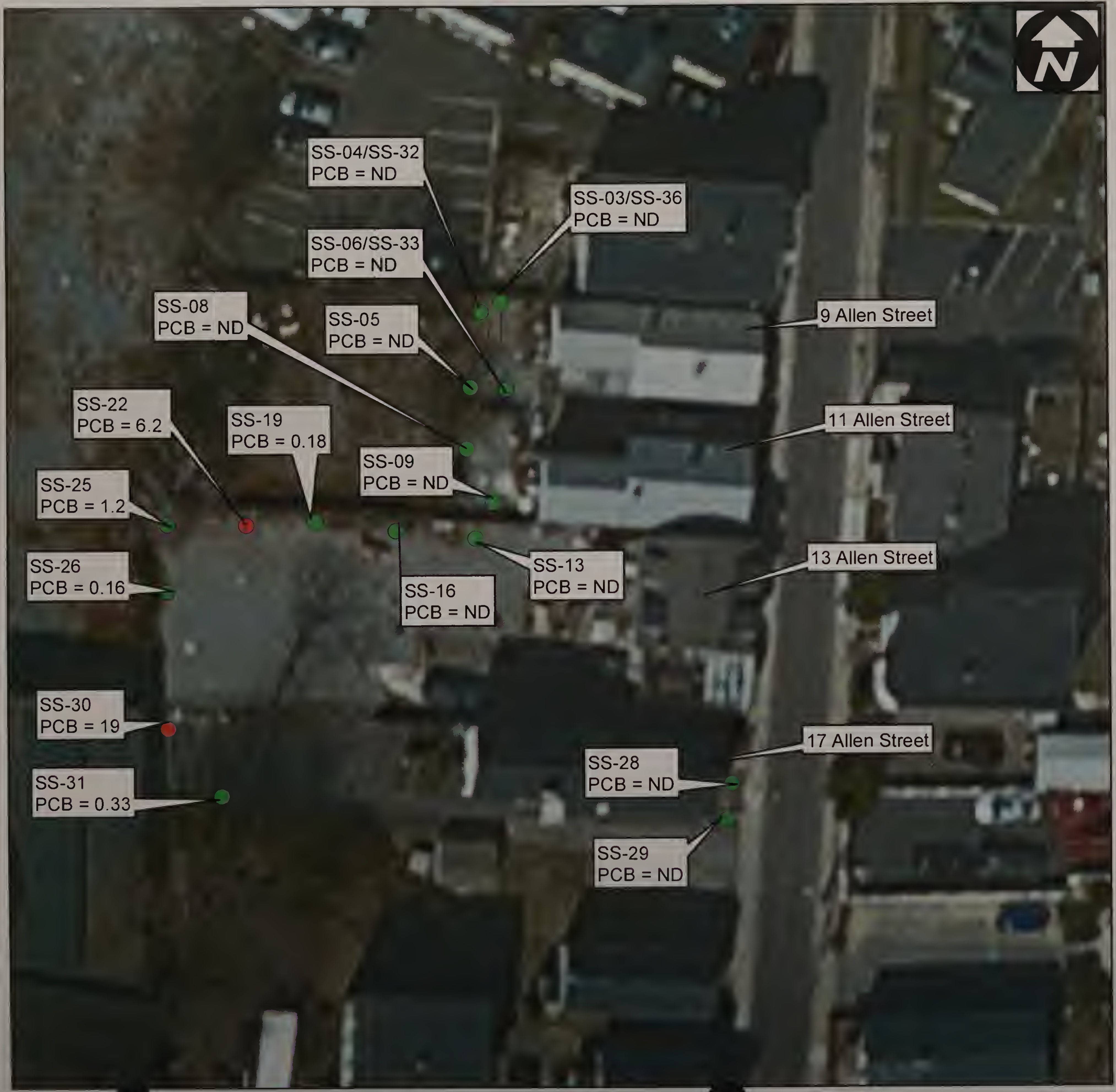

Figure 3C

PCB Sample Location Map

Kiley Barrel Allen Street Site
9, 11, 13, 17 Allen Street
Somerville, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number:	12-06-0001
Created by:	Christine Scesny
Created on:	21 June 2012
Modified by:	Christine Scesny
Modified on:	4 October 2012

LEGEND

- 🟥 PCB soil sample result exceeds the soil category MCP S-1 standard at this location
- 🟩 Soil Sample Locations

All results reported in mg/Kg.

ND = non-detect

PCB = Polychlorinated Biphenyl

The MCP S-1 soil standard for PCBs is 2 mg/Kg

MCP S-1 = Massachusetts Contingency Plan soil category S-1 standard.

Note: Please see Appendix C, Table 3 for details on analytical results.

Data Sources:
Imagery: Bing Maps Aerial
2010 Microsoft Corporation
All other data: START

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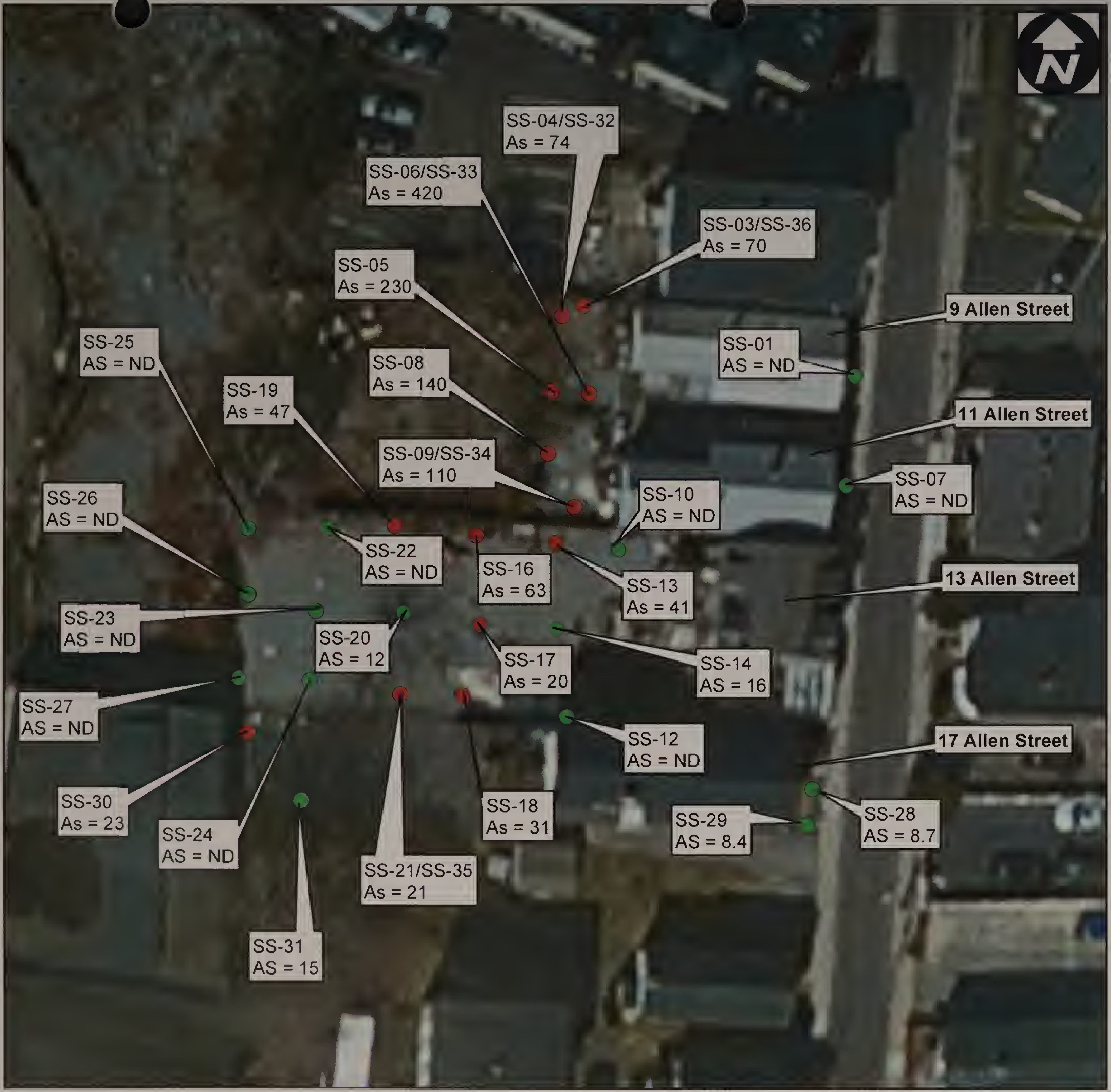

Figure 3D

Arsenic Sample Location Map

Kiley Barrel Allen Street Site
9, 11, 13, 17 Allen Street
Somerville, Massachusetts

EPA Region I
Superfund Technical Assessment and
Response Team (START) III
Contract No. EP-W-05-042

TDD Number:	12-06-0001
Created by:	Christine Scesny
Created on:	21 June 2012
Modified by:	Christine Scesny
Modified on:	28 September 2012

LEGEND

🟥 Soil sample result exceeds the MCP soil category S-1 standard for Arsenic at this sample location.

🟩 Soil Sample Locations

All results reported in mg/Kg.

As = Arsenic

ND = non-detect

The MCP S-1 standard for Arsenic is 20 mg/Kg.

MCP S-1 = Massachusetts Contingency Plan Method 2; soil category S-1 standards.

Note: Please see Appendix C, Table 4 for details on analytical results.

Data Sources:
Imagery: Bing Maps Aerial
2010 Microsoft Corporation
All other data: START

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Appendix B

Soil Boring Logs

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SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-01
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/22/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
1_		0 - 12" Brown, SAND and SILT, little gravel, trace organics. End of Boring.	Top= 0
2_	12"		Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS - 01A = collected from 0 - 12" interval at 1018 hrs for Arsenic analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-03/SS-36A
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 6" Dark brown and gray, SILT and SAND, trace organics, trace gravel, trace debris (brick, glass, ash).	
1_			Top= 0
		6 - 10" Brown, SAND and SILT, trace gravel, trace organics.	
		10 - 22" Gray, SILT and SAND, some ash, little debris (glass, metals), trace organics, trace gravel.	
2_			
	22"		Center = 0
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-03A/SS-36A = collected from 0 - 6" interval at 1145 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-03B = collected from 6 - 12" interval at 1146 hrs for SVOC, VOC, Metals, PCB analyses.
Sample SS-03C = collected from 12 - 18" interval at 1147 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-04/SS-32A
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 6" Brown, SILT and SAND, trace organics, trace fine gravel.	Top= 0
1_			
		6 - 11" Gray, SILT and SAND, some debris (ash), trace organics, trace gravel.	
		11 - 16" Light brown, SAND, trace gravel, trace debris (brick, ceramic).	
2_			
	27"	16 - 23" Gray, SILT and SAND, some debris (ash), trace organics, trace gravel.	Center = 0
		23 - 25" Brown, SILT and SAND, trace debris (brick), trace organics, trace gravel.	
3_			
		25- 27" Brown, SILT and SAND, trace debris (brick), trace organics, trace gravel.	
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-04A/SS-32A = collected from 0 - 7" interval at 1140 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-04B = collected from 7 - 14 " interval at 1141 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-04C = collected from 14 - 21" interval at 1142 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-05
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
1_		0 - 12" Brown, SAND and SILT, little gravel, trace organics, trace debris (metal, bone, ceramic, cement, glass, clay).	Top= 0
		12 - 24" Orange-brown, SAND, little gravel, trace organics, trace debris (slag, glass).	
2_		24- 38" Black, SAND and SILT, little gravel, little debris (brick, glass, metal),trace organics.	
	38"		Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-05A = collected from 0 - 9" interval at 1250 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-05B = collected from 9 - 18" interval at 1300 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-05C = collected from 18 - 27" interval at 1305 hrs for SVOC, VOC, Metals, PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	SOIL BORING LOG		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-06/SS-33A
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	**Soil Description***	PID Screen (ppm)
		0 - 12" Black and brown, SILT and SAND, little gravel, trace organics, trace debris (metal, slag).	Top= 0
1_			
		12 - 24" Black and gray, SAND and SILT, trace gravel, trace debris (cement, slag), trace ash.	
		24- 36" Red and black-brown, SAND, little gravel, trace debris (slag, cement).	
2_			
	36"		Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-06A/SS-33A = collected from 0 - 9" interval at 1245 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-06B = collected from 9 - 18 " interval at 1300 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-06C = collected from 18 - 27 " interval at 1315 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:

bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-7A
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/22/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		Dark brown-black, fine-to-coarse SILT, little gravel, trace organics. End of Boring	Top= 0
1_			
2_	12 "		Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS-07A = collected from 0 - 12" interval at 1120 hrs for Arsenic analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-08
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 1" Dark brown, SAND, some organics, trace gravel.	Top= 0
1_			
		1 - 7" Brown, SILT and SAND, trace gravel, trace organics.	
		7 - 9" Red and gray, SILT and SAND, little gravel, trace organics, trace debris (glass, brick).	
2_			
	29"	9 - 19" Brown, SILT and SAND, trace gravel, trace organics.	Center = 0
		19 - 21" Black, SAND and GRAVEL, some debris (brick, ash, glass).	
3_			
		21 - 29" Gray, moist, SILT, some sand, little clay, trace debris (glass, brick, ash).	
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-08A = collected from 0 - 7" interval at 1112 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-08B = collected from 7 - 14" interval at 1113 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-08C = collected from 14 - 21" interval at 1114 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-09/SS-34A
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 1" Organics (plywood).	Top= 0
1_			
		1 - 8" Brown and gray, SAND and SILT, little gravel, trace organics.	
		8 - 11" Black and gray, SAND, some gravel, some debris (ash and glass).	
2_			
	24"	11 - 14" Brown, SAND, little gravel.	Center = 0
		14 - 24" Gray, SAND and ASH, little gravel, little debris (glass, brick).	
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-09A/SS-34A = collected from 0 - 6" interval at 1033 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-09B = collected from 6 - 12" interval at 1034 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-09C = collected from 12 - 18" interval at 1035 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-10
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/21/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
1_		0 - 12" Dark brown, fine-to-coarse SAND, some coarse gravel, trace silt, trace organics. End of Boring.	Top=0
2_	12"		Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS-10A = collected from 0-12" interval at 1328 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-12
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/21/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 12" Dark brown, SAND and SILT, little gravel, trace organics, trace debris (glass, ceramic, brick). End of Boring .	
1_			Top= 0
2_	12"		Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS-12A = collected from 0-12" interval at 1204 hrs for Metals analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-13
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 12" Dark brown, SAND and SILT, trace gravel, little debris (slag, brick, glass).	Top= 0
1_		12 - 14" Brown SAND, trace fine gravel.	
		14 - 15" brick.	
2_	20"	15 - 18" Brown and black, SILT, some clay and sand, trace gravel, trace pottery.	Center = 0
3_		18 - 20" Gray ash.	
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-13A = collected from 0 - 5" interval at 1424 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-13B = collected from 5 - 10" interval at 1425 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-13C = collected from 10 - 15" interval at 1426 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-14
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 12" Brown, SAND and SILT, little gravel, trace debris (brick, glass, ash).	Top= 0
1_			
		12 - 14" Brown, SAND, little silt, little gravel, trace debris (brick, glass, ash).	
		14 - 15" Light brown, SILT and CLAY, trace fine gravel.	
2_			
	28"	15 - 24" Brown and gray SILT and SAND, trace ash, trace gravel.	Center = 0
		24 - 25" Gray, CLAY and SILT.	
3_			
		25 - 28" Brown, moist, SAND and SILT, trace gravel, little clay.	
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-14A = collected from 0 - 7" interval at 1135 hrs for Metals analysis.
Sample SS-14B = collected from 7 - 14" interval at 1136 hrs for Metals analysis.
Sample SS-14C = collected from 14 - 21" interval at 1138 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	SOIL BORING LOG		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-16
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 5" Black, SAND and SILT, trace gravel, little debris (ash, brick, glass).	Top= 0
1_			
		5 - 9" Brown, SILT, some sand, trace gravel, trace organics.	
		9 - 10" Black, SILT, little debris (ash, brick), trace gravel.	
2_			
	19"	10 - 12" Brown and gray, CLAY and SILT, some sand, trace gravel.	Center = 0
		12 - 19" Brown and gray, moist, SILT and SAND, some gravel.	
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-16A = collected from 0 - 5" interval at 1357 hrs for SVOC, VOC, Metals,and PCB analyses.
Sample SS-16B = collected from 5 - 10" interval at 1358 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-16C = collected from 10 - 15" interval at 1359 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-17
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 6" Dark brown, SILT and SAND, trace organics, trace gravel, trace debris (brick, ash).	Top= 0
1_			
		6 - 13" Brown gray and orange, SILT and SAND, little gravel, trace debris (brick).	
		13 - 15" Gray, SILT and SAND, trace clay, trace gravel.	
2_			
	21"	15 - 21" Light brown and orange, SAND, little gravel.	Center = 0
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-17A = collected from 0 - 5" interval at 1122 hrs for Metals analysis.
Sample SS-17B = collected from 5 - 10" interval at 1123 hrs for Metals analysis.
Sample SS-17C = collected from 10 - 15" interval at 1124 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-18
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 4" Brick.	Top= 0
1_		4 - 19" Gray-brown, SAND and SILT, trace gravel, trace organics.	
2_	19"		Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-18A = collected from 0 - 5" interval at 1500 hrs for Metals analysis.
Sample SS-18B = collected from 5 - 10" interval at 1501 hrs for Metals analysis.
Sample SS-18C = collected from 10 - 15" interval at 1502 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-19
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 3" Dark brown, SAND and SILT, trace gravel, little debris (brick, slag, coal), trace organics.	Top= 0
1_			
		3 - 7" Brown, SAND and SILT, little gravel, trace debris.	
		7 - 14" Brown and black, SAND and SILT, trace debris, trace organics.	
2_			
	25"	14 - 17" Black, SAND and SILT, trace gravel.	Center = 0
		17 - 25" Black and tan, SAND and SILT, little clay, trace gravel, trace debris (glass, brick).	
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-19A = collected from 0 - 6" interval at 1327 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-19B = collected from 6 - 12" interval at 1328 hrs for SVOC, VOC, Metals, and PCB analyses
Sample SS-19C = collected from 12 - 18" interval at 1329 hrs for SVOC, VOC, Metals, PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-20
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 5" Dark brown, SILT and SAND, trace gravel, trace organics.	Top= 0
1_			
		5 - 11" Brown-orange brown, SILT and SAND, trace gravel.	
		11 - 14" Orange brown SAND and CLAY, little gravel.	
2_			
	20"	14 - 20" Dark brown and black, moist, SILT and SAND, trace gravel.	Center = 0
3_			
4_		End of Boring.	
			Bottom= 0

Sample Collection Details:

Sample SS-20A = collected from 0 - 5" interval at 1113 hrs for Metals analysis.
Sample SS-20B = collected from 5 - 10" interval at 1114 hrs for Metals analysis.
Sample SS-20C = collected from 10 - 15" interval at 1116 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc. **SOIL BORING LOG**

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-21/SS-35A
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 5" Orange brown, SAND, little concrete, trace gravel, trace debris (brick).	Top= 0
1_			
		5 - 19'' Dark brown and black, SAND and SILT, trace gravel, trace debris (brick), trace organics.	
2_			
	19"		Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-21A/SS-35A = collected from 0 - 5" interval at 1455 hrs for Metals analysis.
Sample SS-21B = collected from 5 - 10 " interval at 1456 hrs for Metals analysis.
Sample SS-21C = collected from 10 - 15" interval at 1457 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-22
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 3" Brown, SILT and SAND, little gravel, trace organics.	Top= 0
1_			
		3 - 6" Light brown, SAND, trace gravel.	
		6 - 14" Brown, SAND and SILT, little gravel, trace organics, trace debris(glass, brick, coal).	
2_			
	25"	14 - 25" Light, brown, and gray, SAND and SILT, some gravel and rock.	Center = 0
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-22A = collected from 0 - 6 " interval at 1220 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-22B = collected from 6 - 12 " interval at 1221 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-22C = collected from 12 - 18 " interval at 1223 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-23
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 10" Dark brown, moist, SILT and SAND, trace organics, trace debris (brick, ash, glass), trace gray clay.	Top= 0
1_		10 - 12" Dark gray-black, SILT and SAND, trace debris (ash, unknown porous rock).	
2_		12 - 19" Light brown, SILT and SAND, trace clay, trace gravel.	
	21"	19 - 21" Dark brown, moist, SILT and SAND. Little rock and gravel, trace organics.	Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-23A = collected from 0 - 5" interval at 1101 hrs for Metals analysis.
Sample SS-23B = collected from 5 - 10" interval at 1103 hrs for Metals analysis.
Sample SS-23C = collected from 10 - 15" interval at 1105 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-24
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree- Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 3" Brown, SAND, trace gravel, trace organics, trace debris (brick, slag).	Top= 0
1_			
		3 - 12" Brown, SAND and SILT, trace gravel, trace organics, trace debris (brick, slag, glass).	
2_		12 - 16" Brown, SAND and SILT, trace clay, trace gravel, trace organics, trace debris (brick, slag, glass).	
	22"	16 - 22" Rock and GRAVEL, little brown sand.	Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-24A = collected from 0 - 6" interval at 1445 hrs for Metals analysis.
Sample SS-24B = collected from 6 - 12" interval at 1446 hrs for Metals analysis.
Sample SS-24C = collected from 12 - 18" interval at 1447 hrs for Metals analysis.

Notes:

bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-25
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	**Soil Description***	PID Screen (ppm)
		0 - 5" Brown, SAND, trace gravel and organics.	Top= 0
1_			
		5 - 8" Concrete.	
		8 - 10" Dark brown, SILT and SAND, trace debris (brick, glass), trace organics.	
2_			
	19"	10 - 19" Brown, SAND and SILT, little gravel, trace debris.	Center = 0
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-25A = collected from 0 - 5" interval at 1153 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-25B = collected from 5-10" interval at 1154 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-25C = collected from 10 - 15" interval at 1155 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-26
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 7" Dark brown, fine SAND and SILT, trace organics, trace debris (glass), trace gravel.	Top= 0
1_			
		7 - 10" Light brown, fine-to-coarse SAND, trace fine gravel.	
		10 - 18" Brown-gray, SILT and SAND, little gravel, trace organics, trace debris (brick, ash, glass).	
2_			
	24"	18 - 21" Orange-gray, SILT and SAND, little clay, trace gravel.	Center = 0
		21 - 23" Light brown-gray, fine-to-coarse SAND, little gravel.	
3_			
		23-24" Rock.	
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-26A = collected from 0 - 6 " interval at 1040 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-26B = collected from 6 - 12 " interval at 1041 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-26C = collected from 12 - 18 " interval at 1042 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc. **SOIL BORING LOG**

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-27
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/21/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 1" Brown, SILT and SAND, little debris (brick), trace organics, trace gravel.	Top= 0
1_			
		1 - 2" Light brown SAND, trace gravel.	
2_		2 - 14" Dark brown and black, SILT and SAND, little clay, little debris (brick), trace gravel and organics.	
	17"	14 - 17" Brown, SAND and rock.	Center = 0
3_			
4_		End of Boring	Bottom= 0

Sample Collection Details:

Sample SS-27A = collected from 0 - 4" interval at 1440 hrs for Metals analysis.
Sample SS-27B = collected from 4 - 8" interval at 1441 hrs for Metals analysis.
Sample SS-27C = collected from 8 - 12" interval at 1442 hrs for Metals analysis.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROWPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.

SOIL BORING LOG

Project	Kiley Barrel Allen Street site	**Boring ID**	SS-28A
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/21/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
1_		0 - 12" Dark brown, SAND and SILT, some gravel, trace organics. End of Boring.	Top= 0
2_	12"		Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS-28A = collected from 0 - 12" interval at 1420 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-29
Location	Somerville, MA	**Boring Type**	Hand Auger
Date	8/21/2012	**Sampling Method**	Hand Auger
Operator	START	**Completion Depth**	1 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
1_	12"	0 - 12" Brown, fine-to-coarse SAND and SILT, little gravel, trace organics. End of Boring.	Top= 0
2_			Center = N/A
3_			
4_			Bottom= N/A

Sample Collection Details:

Sample SS-29 = collected from 0 - 12 " interval at 1359 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	**SOIL BORING LOG**		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-30
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
	22"	0 - 8" Dark brown, SAND and SILT, trace organics, little gravel.	Top= 0
1_		8 - 11" Black DEBRIS (brick, ash, tile).	
		11 - 14" Gray, SAND and trace gravel, some debris (brick, ash, glass).	
2_		14 - 18" Black, SILT and SAND, trace organics, trace debris (glass, brick).	Center = 0
		18 - 21" ROCK (shale)	
3_		21 - 22" Gray, moist, SAND, trace fine gravel.	
4_		End of Boring .	Bottom= 0

Sample Collection Details:

Sample SS-30A = collected from 0 - 6 " interval at 0943 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-30B = collected from 6 - 12 " interval at 0944 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-30C = collected from 12 - 18 " interval at 0945 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Weston Solutions, Inc.	SOIL BORING LOG		
Project	Kiley Barrel Allen Street site	**Boring ID**	SS-31
Location	Somerville, MA	**Boring Type**	Pneumatic hammer
Date	8/22/2012	**Sampling Method**	4 -ft. Macrocore
Operator	START	**Completion Depth**	4 -ft
Logged by	Chris Dupree - Weston, Superfund Technical Assessment and Response Team (START)		

Depth (ft bgs)	Recovery (inches)	Soil Description*	PID Screen (ppm)
		0 - 17" Gray, SAND and SILT, some gravel, trace debris (brick), trace organics.	Top= 0
1_			
		17 - 22" Black, SILT, some debris (glass, brick),little gravel, trace organics.	
		22 - 24" Orange, SAND, trace gravel.	
2_			
	26"	24 - 26" Gray, SILT and SAND, some debris (glass, brick), trace gravel.	Center = 0
3_			
4_		End of Boring	
			Bottom= 0

Sample Collection Details:

Sample SS-31A = collected from 0 - 7" interval at 1000 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-31B = collected from 7 - 14" interval at 1001 hrs for SVOC, VOC, Metals, and PCB analyses.
Sample SS-31C = collected from 14 - 21" interval at 1002 hrs for SVOC, VOC, Metals, and PCB analyses.

Notes:
bgs = below ground surface
ft = feet
hrs = hours
N/A = Not Applicable
PID = Photoionization detector
ppm = parts per million
SVOC = Semivolatile organic compounds
VOC = Volatile organic compounds
" = inch(es)
* Burmeister Soil Classification System

PROPORTIONS USED (by DRY WEIGHT)
0 to 10% = TRACE
>10 to 20% = LITTLE
>20 to 35% = SOME
>35 to 50% = AND
> 50% = MAJOR

Appendix C

Tables and Spreadsheets

Table 1 – Summary of Volatile Organic Compound Results
Table 2 – Summary of Semivolatile Organic Compound Results
Table 3 – Summary of Polychlorinated Biphenyl Results
Table 4 – Summary of Metals Results

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TABLE 1

SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION SAMPLE NUMBER DEPTH	SS-03A 12060001-0003 0 - 1 ft.	SS-03B 12060001-0004 1 - 2 ft.	SS-03C 12060001-0005 2 - 3 ft.	SS-04A 12060001-0006 0 - 1 ft.	SS-04B 12060001-0008 1 - 2 ft.	SS-04C 12060001-0009 2 - 3 ft.	MCP Standard	
							S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

SAMPLE LOCATION SAMPLE NUMBER DEPTH	SS-05A 12060001-0010 0 - 1 ft.	SS-05B 12060001-0011 1 - 2 ft.	SS-05C 12060001-0012 2 - 3 ft.	SS-06A 12060001-0013 0 - 1 ft.	SS-06B 12060001-0015 1 - 2 ft.	SS-06C 12060001-0016 2 - 3 ft.	MCP Standard	
							S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	510	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	160	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	180	ND	ND	ND	100,000	500,000

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-VOAGCMS9, VOAs in Soil High Level Method.
2) All Results in Micrograms per Kilogram (µg/kg).
3) MCP Standard S-1 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, Residential Criteria. Units in µg/Kg.
4) MCP Standard S-3 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, isolated subsurface or under the footprint of a building or permanent structure. Units in µg/Kg.
5) NA = Not Available.
6) ft = Feet

TABLE 1

SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-08A	SS-08B	SS-08C	SS-09A	SS-09B	SS-09C	MCP Standard	
SAMPLE NUMBER	12060001-0018	12060001-0019	12060001-0020	12060001-0021	12060001-0023	12060001-0024		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

SAMPLE LOCATION	SS-13A	SS-13B	SS-13C	SS-16A	SS-16B	SS-16C	MCP Standard	
SAMPLE NUMBER	12060001-0032	12060001-0034	12060001-0035	12060001-0042	12060001-0043	12060001-0044		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	160	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-VOAGCMS9, VOAs in Soil High Level Method.
2) All Results in Micrograms per Kilogram (µg/kg).
3) MCP Standard S-1 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, Residential Criteria. Units in µg/Kg.
4) MCP Standard S-3 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, isolated subsurface or under the footprint of a building or permanent structure. Units in µg/Kg.
5) NA = Not Available.
6) ft = Feet

TABLE 1

SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-19A	SS-19B	SS-19C	SS-22A	SS-22B	SS-22C	MCP Standard	
SAMPLE NUMBER	12060001-0051	12060001-0085	12060001-0053	12060001-0060	12060001-0061	12060001-0062		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	160	110	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

SAMPLE LOCATION	SS-25A	SS-25B	SS-25C	SS-26A	SS-26B	SS-26C	MCP Standard	
SAMPLE NUMBER	12060001-0069	12060001-0070	12060001-0071	12060001-0072	12060001-0073	12060001-0074		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	170	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-VOAGCMS9, VOAs in Soil High Level Method.
2) All Results in Micrograms per Kilogram (µg/kg).
3) MCP Standard S-1 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, Residential Criteria. Units in µg/Kg.
4) MCP Standard S-3 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, isolated subsurface or under the footprint of a building or permanent structure. Units in µg/Kg.
5) NA = Not Available.
6) ft = Feet

TABLE 1

SUMMARY OF VOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-28A	SS-29A	SS-30A	SS-30B	SS-30C	SS-31A	MCP Standard	
SAMPLE NUMBER	12060001-0078	12060001-0079	12060001-0080	12060001-0086	12060001-0081	12060001-0082		
DEPTH	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND	ND	NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND	ND	30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND	ND	90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND	100,000	500,000

SAMPLE LOCATION	SS-31B	SS-31C	SS-32A	SS-33A	SS-36A		MCP Standard	
SAMPLE NUMBER	12060001-0083	12060001-0084	12060001-0007	12060001-0014	12060001-0052			
DEPTH	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.		S-1	S-3
COMPOUND								
1,1,2-Trichloro-1,2,2-Trifluproetha	ND	ND	ND	ND	ND		NA	NA
2-Propanone (acetone)	ND	ND	ND	ND	ND		500,000	3,000,000
Naphthalene	ND	ND	ND	ND	ND		500,000	3,000,000
Tetrachloroethylene	ND	ND	ND	ND	ND		30,000	1,000,000
Trichloroethylene	ND	ND	ND	ND	ND		90,000	2,000,000
Cis-1,2-Dichloroethylene	ND	ND	ND	ND	ND		100,000	500,000

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-VOAGCMS9, VOAs in Soil High Level Method.
2) All Results in Micrograms per Kilogram (µg/kg).
3) MCP Standard S-1 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, Residential Criteria. Units in µg/Kg.
4) MCP Standard S-3 = Massachusetts Contingency Plan (MCP), Reportable Concentrations for Soil, isolated subsurface or under the footprint of a building or permanent structure. Units in µg/Kg.
5) NA = Not Available.
6) ft = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-03A	SS-03B	SS-03C	SS-04A	SS-04B	SS-04C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0003	12060001-0004	12060001-0005	12060001-0006	12060001-0008	12060001-0009		
SAMPLE DESCRIPTION	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA	NA
2-Methylnaphthalene	ND	NDN	ND	ND	ND	ND	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	420	ND	NA	NA
Acenaphthene	510	660	ND	290	420	ND	1,000,000	5,000,000
Acenaphthylene	290	ND	ND	ND	ND	ND	1,000,000	5,000,000
Anthracene	1,300	1,400	ND	790	1,200	ND	1,000,000	5,000,000
Benzo(a)anthracene	4,300	2,700	440	3,000	2,800	330	7,000	300,000
Benzo(a)pyrene	**4,100**	**2,300**	480	**2,900**	**2,400**	300	2,000	30,000
Benzo(b)fluoranthene	4,100	2,100	480	2,800	2,100	330	7,000	300,000
Benzo(g,h,i)perylene	1,900	950	ND	1,200	1,400	ND	1,000,000	5,000,000
Benzo(k)fluoranthene	3,600	2,000	390	2,800	2,000	270	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	300	ND	ND	770	ND	ND	200,000	3,000,000
Carbazole	660	720	ND	400	460	ND	NA	NA
Chrysene	4,900	3,000	520	3,500	3,100	420	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	590	320	ND	400	430	ND	700	30,000
Dibenzofuran	320	550	ND	ND	370	ND	NA	NA
Fluoranthene	8,300	6,200	730	5,900	6,000	590	1,000,000	5,000,000
Fluorene	490	690	ND	300	410	ND	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	1,900	1,000	ND	1,300	1,300	ND	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	NA	NA
Naphthalene	ND	300	ND	ND	ND	ND	500,000	3,000,000
Phenanthrene	6,000	6,300	350	4,000	5,200	310	500,000	3,000,000
Pyrene	7,900	5,500	690	5,500	5,100	580	1,000,000	5,000,000

NOTES:

1) BNA samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-BNAS3.
2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
5) ND = Not Detected.
6) NA = Not Available.
7) START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory d
8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION DEPTH	SS-05A 12060001-0010 SVOC 0 - 1 ft.	SS-05B 12060001-0011 SVOC 1 - 2 ft.	SS-05C 12060001-0012 SVOC 2 - 3 ft.	SS-06A 12060001-0013 SVOC 0 - 1 ft.	SS-06B 12060001-0015 SVOC 1 - 2 ft.	SS-06C 12060001-0016 SVOC 2 - 3 ft.	MASS DEP MCP STANDARDS	
COMPOUND							S-1	S-3
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	450	ND	640	ND	ND	ND	1,000,000	5,000,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	1,000,000	5,000,000
Anthracene	1,100	ND	1,200	300	ND	ND	1,000,000	5,000,000
Benzo(a)anthracene	3,500	430	2,800	1,400	660	1,200	7,000	300,000
Benzo(a)pyrene	**3,100**	390	**2,600**	1,500	670	1,100	2,000	30,000
Benzo(b)fluoranthene	3,400	450	2,200	1,600	860	1,300	7,000	300,000
Benzo(g,h,i)perylene	1,300	ND	1,600	820	310	430	1,000,000	5,000,000
Benzo(k)fluoranthene	3,200	360	1,900	1,500	ND	1,100	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	550	ND	ND	2,200	ND	ND	200,000	3,000,000
Carbazole	520	ND	420	ND	ND	ND	NA	NA
Chrysene	3,800	490	2,900	1,500	810	1,300	70,000	3,000,000
Di-n-butylphthalate	280	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	420	ND	490	ND	ND	ND	700	30,000
Dibenzofuran	270	ND	ND	ND	ND	ND	NA	NA
Fluoranthene	6,400	920	5,700	2,900	1,000	2,300	1,000,000	5,000,000
Fluorene	420	ND	ND	ND	ND	ND	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	1,300	ND	1,500	740	300	460	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	740	ND	ND	NA	NA
Naphthalene	ND	ND	ND	ND	NND	ND	500,000	3,000,000
Phenanthrene	4,700	680	3,900	1,700	490	1,000	500,000	3,000,000
Pyrene	6,100	860	4,900	2,900	1,000	2,300	1,000,000	5,000,000

NOTES:

1) BNA samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-BNAS3.
2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
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6) NA = Not Available.
7) START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory d
8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-08A	SS-08B	SS-08C	SS-09A	SS-09B	SS-09C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0018	12060001-0019	12060001-0020	12060001-0021	12060001-0023	12060001-0024		
SAMPLE DESCRIPTION	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	820	ND	ND	ND	ND	ND	1,000,000	5,000,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	1,000,000	5,000,000
Anthracene	1,700	330	ND	530	440	ND	1,000,000	5,000,000
Benzo(a)anthracene	3,500	740	ND	1,400	1,500	ND	7,000	300,000
Benzo(a)pyrene	**2,900**	590	ND	1,200	1,300	ND	2,000	30,000
Benzo(b)fluoranthene	2,900	550	ND	1,200	1,300	ND	7,000	300,000
Benzo(g,h,i)perylene	1,600	390	ND	730	720	ND	1,000,000	5,000,000
Benzo(k)fluoranthene	2,600	460	ND	990	980	ND	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	460	ND	ND	ND	ND	ND	200,000	3,000,000
Carbazole	900	ND	ND	ND	ND	ND	NA	NA
Chrysene	3,900	830	330	1,600	1,800	300	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	520	ND	ND	ND	ND	ND	700	30,000
Dibenzofuran	640	ND	ND	ND	ND	ND	NA	NA
Fluoranthene	6,700	1,700	530	3,200	3,400	550	1,000,000	5,000,000
Fluorene	830	ND	ND	ND	ND	N	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	1,600	360	ND	730	750	N	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	ND	ND	N	NA	NA
Naphthalene	290	ND	ND	ND	ND	N	500,000	3,000,000
Phenanthrene	6,300	1,500	380	2,600	2,400	300	500,000	3,000,000
Pyrene	5,900	1,300	420	2,600	2,900	460	1,000,000	5,000,000

NOTES:

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2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
5) ND = Not Detected.
6) NA = Not Available.
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8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-13A	SS-13B	SS-13C	SS-16A	SS-16B	SS-16C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0032	12060001-0034	12060001-0035	12060001-0042	12060001-0043	12060001-0044		
SAMPLE DESCRIPTION	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	ND	ND	ND	ND	ND	ND	1,000,000	5,000,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	1,000,000	5,000,000
Anthracene	360	ND	ND	ND	ND	390	1,000,000	5,000,000
Benzo(a)anthracene	1,500	1,300	800	1,100	1,000	1,800	7,000	300,000
Benzo(a)pyrene	1,400	1,300	870	1,100	1,000	1,800	2,000	30,000
Benzo(b)fluoranthene	1,600	1,300	750	1,100	970	1,800	7,000	300,000
Benzo(g,h,i)perylene	980	1,100	1,100	550	490	700	1,000,000	5,000,000
Benzo(k)fluoranthene	1,200	910	790	910	810	1,400	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	320	ND	ND	ND	ND	ND	200,000	3,000,000
Carbazole	ND	ND	ND	ND	ND	ND	NA	NA
Chrysene	1,800	1,500	890	1,300	1,200	2,000	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	700	30,000
Dibenzofuran	ND	ND	ND	ND	ND	ND	NA	NA
Fluoranthene	3,300	2,600	1,600	2,300	2,000	3,200	1,000,000	5,000,000
Fluorene	ND	ND	ND	570	ND	ND	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	930	820	570	ND	530	780	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	NA	NA
Naphthalene	ND	ND	ND	ND	ND	ND	500,000	3,000,000
Phenanthrene	2,100	1,400	910	1,300	1,100	2,100	500,000	3,000,000
Pyrene	3,000	2,400	1,500	2,200	1,900	3,100	1,000,000	5,000,000

NOTES:

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2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
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MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
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8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-19A	SS-19B	SS-19C	SS-22A	SS-22B	SS-22C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0051	12060001-0085	12060001-0053	12060001-0060	12060001-0061	12060001-0062		
SAMPLE DESCRIPTION	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
COMPOUND								
1-Methylnaphthalene	ND	ND	ND	ND	ND	ND	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	ND	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	ND	ND	ND	540	790	ND	1,000,000	5,000,000
Acenaphthylene	ND	ND	ND	ND	ND	ND	1,000,000	5,000,000
Anthracene	ND	480	850	1,600	ND	320	1,000,000	5,000,000
Benzo(a)anthracene	570	2,100	3,100	4,100	2,900	1,100	7,000	300,000
Benzo(a)pyrene	570	**2,100**	**2,900**	**3,100**	**2,800**	1,200	2,000	30,000
Benzo(b)fluoranthene	500	2,500	2,800	3,400	3,200	1,300	7,000	300,000
Benzo(g,h,i)perylene	330	980	1,200	1,200	1,200	460	1,000,000	5,000,000
Benzo(k)fluoranthene	420	2,200	2,600	3,200	2,800	950	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	ND	ND	ND	ND	ND	ND	200,000	3,000,000
Carbazole	ND	390	320	1,600	500	ND	NA	NA
Chrysene	660	2,500	3,400	4,600	3,400	1,400	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	ND	310	ND	ND	340	ND	700	30,000
Dibenzofuran	ND	ND	ND	630	ND	ND	NA	NA
Fluoranthene	1,000	4,600	6,200	8,600	6,000	2,600	1,000,000	5,000,000
Fluorene	ND	ND	ND	680	360	ND	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	320	980	1,300	1,300	1,200	490	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	NA	NA
Naphthalene	ND	ND	ND	640	ND	ND	500,000	3,000,000
Phenanthrene	480	3,000	3,700	7,900	4,500	1,900	500,000	3,000,000
Pyrene	900	4,100	6,200	7,800	5,900	2,400	1,000,000	5,000,000

NOTES:

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MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
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8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION DEPTH	SS-25A 12060001-0069 SVOC 0 - 1 ft.	SS-25B 12060001-0070 SVOC 1 - 2 ft.	SS-25C 12060001-0071 SVOC 2 - 3 ft.	SS-26A 12060001-0072 SVOC 0 - 1 ft.	SS-26B 12060001-0073 SVOC 1 - 2 ft.	SS-26C 12060001-0074 SVOC 2 - 3 ft.	MASS DEP MCP STANDARDS	
COMPOUND							S-1	S-3
1-Methylnaphthalene	ND	ND	ND	ND	ND	390	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	ND	430	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	ND	480	1,100	290	530	1,200	1,000,000	5,000,000
Acenaphthylene	ND	ND	390	ND	ND	430	1,000,000	5,000,000
Anthracene	ND	ND	2,600	550	930	2,200	1,000,000	5,000,000
Benzo(a)anthracene	780	2,500	**7,600**	2,200	3,400	**8,600**	7,000	300,000
Benzo(a)pyrene	750	**2,300**	**7,000**	**2,300**	**3,400**	**8,500**	2,000	30,000
Benzo(b)fluoranthene	850	2,500	**7,600**	2,400	3,500	**9,400**	7,000	300,000
Benzo(g,h,i)perylene	300	830	2,900	1,000	1,400	3,500	1,000,000	5,000,000
Benzo(k)fluoranthene	700	2,400	6,700	2,200	3,600	7,100	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	ND	ND	ND	ND	ND	ND	200,000	3,000,000
Carbazole	ND	570	1,800	330	600	1,600	NA	NA
Chrysene	980	2,800	8,600	2,700	4,200	9,700	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	ND	ND	310	ND	ND	370	700	30,000
Dibenzofuran	ND	420	1,100	ND	360	1,100	NA	NA
Fluoranthene	1,900	5,600	22,000	4,800	6,700	23,000	1,000,000	5,000,000
Fluorene	ND	460	1,100	290	530	1,200	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	310	860	3,000	990	1,400	3,600	7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	ND	ND	ND	NA	NA
Naphthalene	ND	400	770	ND	460	920	500,000	3,000,000
Phenanthrene	1,700	5,100	10,000	4,100	6,300	9,700	500,000	3,000,000
Pyrene	1,800	5,500	18,000	5,400	7,600	19,000	1,000,000	5,000,000

NOTES:

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   MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
   Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
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8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION	SS-28A	SS-29A	SS-30A	SS-30B	SS-30C	SS-31A	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0078	12060001-0079	12060001-0080	12060001-0086	12060001-0081	12060001-0082		
SAMPLE DESCRIPTION	SVOC	SVOC	SVOC	SVOC	SVOC	SVOC		
DEPTH	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	S-1	S-3
COMPOUND								
1-Methylnaphthalene	ND	ND	ND	ND	1,100	ND	NA	NA
2-Methylnaphthalene	ND	ND	ND	ND	1,100	330	300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND	ND	NA	NA
Acenaphthene	580	ND	810	ND	2,800	700	1,000,000	5,000,000
Acenaphthylene	ND	ND	380	ND	1,000	380	1,000,000	5,000,000
Anthracene	1,100	590	2,200	2,300	6,100	1,700	1,000,000	5,000,000
Benzo(a)anthracene	2,800	1,500	6,400	**7,800**	**19,000**	**5,000**	7,000	300,000
Benzo(a)pyrene	**2,700**	1,300	**5,800**	**8,200**	**17,000**	**4,700**	2,000	30,000
Benzo(b)fluoranthene	2,800	1,200	5,500	**8,700**	**14,000**	4,800	7,000	300,000
Benzo(g,h,i)perylene	1,100	840	2,700	9,200	7,200	1,800	1,000,000	5,000,000
Benzo(k)fluoranthene	2,600	1,100	5,300	6,200	14,000	4,800	70,000	3,000,000
Bis(2-ethylhexyl)phthalat	430	ND	470	ND	ND	ND	200,000	3,000,000
Carbazole	440	ND	1,400	1,600	4,400	930	NA	NA
Chrysene	3,200	1,700	7,300	9,100	21,000	5,700	70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND	ND	NA	NA
Dibenzo(a,h)anthracene	ND	ND	**920**	ND	**2,100**	630	700	30,000
Dibenzofuran	320	ND	780	ND	2,400	660	NA	NA
Fluoranthene	5,600	3,300	12,000	18,000	44,000	9,600	1,000,000	5,000,000
Fluorene	490	ND	870	ND	3,200	700	1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	1,100	810	2,900	4,800	**7,000**	1,900	7,000	300,000
N-nitrosodimethylamine	350	ND	ND	ND	ND	ND	NA	NA
Naphthalene	300	ND	570	ND	2,200	730	500,000	3,000,000
Phenanthrene	5,100	2,700	9,900	10,000	35,000	7,600	500,000	3,000,000
Pyrene	6,200	2,800	11,000	17,000	38,000	8,800	1,000,000	5,000,000

NOTES:

1) BNA samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-BNAS3.
2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
5) ND = Not Detected.
6) NA = Not Available.
7) START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory d
8) ft. = Feet

TABLE 2

SUMMARY OF SEMIVOLATILE ORGANIC COMPOUND RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
µg/kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION DEPTH	SS-31B 12060001-0083 SVOC 1 - 2 ft.	SS-31C 12060001-0084 SVOC 2 - 3 ft.	SS-32A 12060001-0007 SVOC 0 - 1 ft.	SS-33A 12060001-0014 SVOC 0 - 1 ft.	SS-36A 12060001-0052 SVOC 0 - 1 ft.		MASS DEP MCP STANDARDS	
COMPOUND							S-1	S-3
1-Methylnaphthalene	ND	460	ND	ND	ND		NA	NA
2-Methylnaphthalene	ND	480	ND	ND	ND		300,000	500,000
4-nitroquinoline-1-oxide	ND	ND	ND	ND	ND		NA	NA
Acenaphthene	510	1,200	670	800	460		1,000,000	5,000,000
Acenaphthylene	ND	820	ND	ND	ND		1,000,000	5,000,000
Anthracene	1,800	3,500	1,600	1,700	1,000		1,000,000	5,000,000
Benzo(a)anthracene	5,000	**8,400**	4,600	4,400	3,000		7,000	300,000
Benzo(a)pyrene	**4,500**	**7,500**	**4,200**	**3,900**	**2,900**		2,000	30,000
Benzo(b)fluoranthene	4,200	**8,300**	4,800	4,700	2,800		7,000	300,000
Benzo(g,h,i)perylene	1,500	2,700	1,700	1,600	1,200		1,000,000	5,000,000
Benzo(k)fluoranthene	4,400	7,100	4,000	4,000	2,600		70,000	3,000,000
Bis(2-ethylhexyl)phthalat	ND	ND	ND	3,800	ND		200,000	3,000,000
Carbazole	480	1,300	830	960	530		NA	NA
Chrysene	5,000	9,100	5,200	5,100	3,300		70,000	3,000,000
Di-n-butylphthalate	ND	ND	ND	ND	ND		NA	NA
Dibenzo(a,h)anthracene	560	950	560	540	ND		700	30,000
Dibenzofuran	430	1,300	500	630	290		NA	NA
Fluoranthene	8,500	13,000	9,200	9,100	5,700		1,000,000	5,000,000
Fluorene	580	1,700	650	800	420		1,000,000	5,000,000
Indeno(1,2,3-cd)pyrene	1,700	3,000	1,800	1,600	1,300		7,000	300,000
N-nitrosodimethylamine	ND	ND	ND	760	ND		NA	NA
Naphthalene	350	850	ND	400	ND		500,000	3,000,000
Phenanthrene	5,800	12,000	7,800	8,800	4,400		500,000	3,000,000
Pyrene	8,100	13,000	8,600	8,900	5,500		1,000,000	5,000,000

NOTES:

1) BNA samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-BNAS3.
2) All results in Micrograms per Kilogram (µg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
MCP S-3 = Massachusetts Contingency Plan Method 2:Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
Bolded and shaded results exceed MCP S-1 standards. All units in µg/Kg.
5) ND = Not Detected.
6) NA = Not Available.
7) START has reported the data as it was received from the EPA OEME Laboratory. START has not performed data validation of the EPA OEME Laboratory d
8) ft. = Feet

TABLE 3

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-03A	SS-03B	SS-03C	SS-04A	SS-04B	SS-04C	MASS DEP MCP	
SAMPLE NUMBER	12060001-0003	12060001-0004	12060001-0005	12060001-0006	12060001-0008	12060001-0009		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	IH	S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	ND	ND	ND	ND	ND	10	2

SAMPLE LOCATION	SS-05A	SS-05B	SS-05C	SS-06A	SS-06B	SS-06C	MASS DEP MCP	
SAMPLE NUMBER	12060001-0010	12060001-0011	12060001-0012	12060001-0013	12060001-0015	12060001-0016		
SAMPLE DESCRIPTION	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	IH	S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	ND	ND	ND	ND	ND	10	2

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP and EIASOP-FLDPCB2.SOP.
2) All Results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP = Massachusetts Department of Environmental Protection
   MCP = Massachusetts Contingency Plan
   S-1 = Reportable concentrations for soil, Residential Criteria.
   IH = Imminent Hazard
   Units in mg/Kg.
4) Bolded and shaded results exceed MASS DEP MCP S-1 Soil Criteria.
5) ND = Not Detected.
6) NA = Not Available.

TABLE 3

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION DEPTH	SS-08A 12060001-0018 SCREENING 0 - 1 ft.	SS-08B 12060001-0019 SCREENING 1 - 2 ft.	SS-08C 12060001-0020 SCREENING 2 - 3 ft.	SS-09A 12060001-0021 SCREENING 0 - 1 ft.	SS-09B 12060001-0023 SCREENING 1 - 2 ft.	SS-09C 12060001-0024 SCREENING 2 - 3 ft.	MASS DEP MCP IH	MASS DEP MCP S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	ND	ND	ND	ND	ND	10	2

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION DEPTH	SS-13A 12060001-0032 SCREENING 0 - 1 ft.	SS-13B 12060001-0034 SCREENING 1 - 2 ft.	SS-13C 12060001-0035 SCREENING 2 - 3 ft.	SS-16A 12060001-0042 CONFIRMATION 0 - 1 ft.	SS-16B 12060001-0043 CONFIRMATION 1 - 2 ft.	SS-16C 12060001-0044 CONFIRMATION 2 - 3 ft.	MASS DEP MCP IH	MASS DEP MCP S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	ND	ND	ND	ND	ND	10	2

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP and EIASOP-FLDPCB2.SOP.
2) All Results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP = Massachusetts Department of Environmental Protection
   MCP = Massachusetts Contingency Plan
   S-1 = Reportable concentrations for soil, Residential Criteria.
   IH = Imminent Hazard
   Units in mg/Kg.
4) Bolded and shaded results exceed MASS DEP MCP S-1 Soil Criteria.
5) ND = Not Detected.
6) NA = Not Available.

TABLE 3

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-19A	SS-19B	SS-19C	SS-22A	SS-22B	SS-22C	MASS DEP MCP	
SAMPLE NUMBER	12060001-0051	12060001-0085	12060001-0053	12060001-0060	12060001-0061	12060001-0062		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	SCREENING	SCREENING	SCREENING		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	IH	S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	**6.2**	0.39	ND	NA	2
Aroclor-1260	ND	0.18	ND	ND	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	0.18	ND	**6.2**	0.39	ND	10	2

SAMPLE LOCATION	SS-25A	SS-25B	SS-25C	SS-26A	SS-26B	SS-26C	MASS DEP MCP	
SAMPLE NUMBER	12060001-0069	12060001-0070	12060001-0071	12060001-0072	12060001-0073	12060001-0074		
SAMPLE DESCRIPTION	SCREENING	SCREENING	SCREENING	CONFIRMATION	CONFIRMATION	CONFIRMATION		
DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	IH	S-1
COMPOUND								
Aroclor-1242	ND	1.2	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	0.16	ND	ND	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	1.2	ND	0.16	ND	ND	10	2

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP and EIASOP-FLDPCB2.SOP.
2) All Results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP = Massachusetts Department of Environmental Protection
   MCP = Massachusetts Contingency Plan
   S-1 = Reportable concentrations for soil, Residential Criteria.
   IH = Imminent Hazard
   Units in mg/Kg.
4) Bolded and shaded results exceed MASS DEP MCP S-1 Soil Criteria.
5) ND = Not Detected.
6) NA = Not Available.

TABLE 3

SUMMARY OF POLYCHLORINATED BIPHENYL RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-28A	SS-29A	SS-30A	SS-30B	SS-30C	SS-31A	MASS DEP MCP	
SAMPLE NUMBER	12060001-0078	12060001-0079	12060001-0080	12060001-0086	12060001-0081	12060001-0082		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION		
DEPTH	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	IH	S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1248	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1254	ND	ND	**19**	1.6	ND	ND	NA	2
Aroclor-1260	ND	ND	ND	ND	ND	0.33	NA	2
Aroclor-1262	ND	ND	ND	ND	ND	ND	NA	2
Aroclor-1268	ND	ND	ND	ND	ND	ND	NA	2
TOTAL PCBs	ND	ND	**19**	1.6	ND	0.33	10	2

SAMPLE LOCATION	SS-31B	SS-31C	SS-32A	SS-33A	SS-36A		MASS DEP MCP	
SAMPLE NUMBER	12060001-0083	12060001-0084	12060001-0007	12060001-0014	12060001-0052			
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	SCREENING	SCREENING	SCREENING			
DEPTH	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.		IH	S-1
COMPOUND								
Aroclor-1242	ND	ND	ND	ND	ND		NA	2
Aroclor-1248	ND	ND	ND	ND	ND		NA	2
Aroclor-1254	ND	ND	ND	ND	ND		NA	2
Aroclor-1260	ND	ND	ND	ND	ND		NA	2
Aroclor-1262	ND	ND	ND	ND	ND		NA	2
Aroclor-1268	ND	ND	ND	ND	ND		NA	2
TOTAL PCBs	ND	ND	ND	ND	ND		10	2

NOTES:

1) Samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-PESTSOIL3.SOP and EIASOP-FLDPCB2.SOP.
2) All Results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP = Massachusetts Department of Environmental Protection
   MCP = Massachusetts Contingency Plan
   S-1 = Reportable concentrations for soil, Residential Criteria.
   IH = Imminent Hazard
   Units in mg/Kg.
4) Bolded and shaded results exceed MASS DEP MCP S-1 Soil Criteria.
5) ND = Not Detected.
6) NA = Not Available.

TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION SAMPLE DEPTH	SS-01A 12060001-0001 SCREENING 0 - 1 ft.	SS-03A 12060001-0003 CONFIRMATION 0 - 1 ft.	SS-03B 12060001-0004 CONFIRMATION 1 - 2 ft.	SS-03C 12060001-0005 CONFIRMATION 2 - 3 ft.	SS-04A 12060001-0006 CONFIRMATION 0 - 1 ft.	SS-04B 12060001-0008 CONFIRMATION 1 - 2 ft.	SS-04C 12060001-0009 CONFIRMATION 2 - 3 ft.	SS-05A 12060001-0010 SCREENING 0 - 1 ft.	MASS DEP MCP STANDARDS S-1	 S-3
PARAMETER										
Aluminum	----	9,200	8,100	9,100	8,900	9,300	8,300	----	NA	NA
Antimony	----	2.2	ND	2.2	3.2	ND	ND	----	20	30
Arsenic	ND	**47**	**23**	**70**	**74**	**52**	11	**230**	20	20
Barium	----	670	200	920	950	280	180	940	1,000	5,000
Beryllium	----	ND	ND	ND	ND	ND	ND	----	100	200
Cadmium	----	**2.6**	ND	**2.9**	**3.0**	ND	ND	ND	2	30
Calcium	----	5,800	3,000	5,600	5,400	3,000	3,400	----	NA	NA
Chromium	----	**47**	19	**49**	**52**	**73**	21	**290**	30	200
Cobalt	----	8.3	6.5	7.4	7.4	9.3	8.0	----	NA	NA
Copper	----	210	74	150	150	70	190	----	NA	NA
Iron	----	24,000	16,000	22,000	22,000	21,000	15,000	----	NA	NA
Lead	----	**2,600**	**570**	**3,700**	**3,600**	**980**	**770**	**2,870**	300	300
Magnesium	----	2,700	2,700	2,300	2,100	2,700	2,000	----	NA	NA
Manganese	----	350	300	290	290	360	350	----	NA	NA
Nickel	----	**38**	17	**26**	**26**	16	15	----	20	700
Selenium	----	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	----	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	----	ND	ND	ND	ND	ND	ND	----	8	80
Vanadium	----	48	27	45	42	28	26	----	600	1,000
Zinc	----	890	420	970	1,000	570	270	----	2,500	5,000

NOTES:

1) Metals samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-INGICP6, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP); and EPA Region I SOP, EIASOP-INGXRF0.
2) All results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
   MCP S-3 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
   Bolded and shaded results exceed MCP S-1 and/or MCP S-3 standards. All units in mg/Kg.
5) ----- = Parameter not analyzed.
6) ND = Not Detected.
7) NA = Not Available.

TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION SAMPLE DEPTH	SS-05B 12060001-0011 SCREENING 1 - 2 ft.	SS-05C 12060001-0012 SCREENING 2 - 3 ft.	SS-06A 12060001-0013 SCREENING 0 - 1 ft.	SS-06B 12060001-0015 SCREENING 1 - 2 ft.	SS-06C 12060001-0016 SCREENING 2 - 3 ft.	SS-07A 12060001-0017 SCREENING 0 - 1 ft.	SS-08A 12060001-0018 CONFIRMATION 0 - 1 ft.	SS-08B 12060001-0019 CONFIRMATION 1 - 2 ft.	MASS DEP MCP STANDARDS S-1	 S-3
PARAMETER										
Aluminum	----	----	----	----	----	----	7,800	10,000	NA	NA
Antimony	----	----	----	----	----	----	2.7	ND	20	30
Arsenic	**71**	ND	**92**	**320**	**420**	ND	**140**	**63**	20	20
Barium	420	740	690	**1,120**	470	560	**1,000**	200	1,000	5,000
Beryllium	----	----	----	----	----	----	ND	ND	100	200
Cadmium	ND	ND	ND	ND	ND	ND	**2.7**	ND	2	30
Calcium	----	----	----	----	----	----	8,400	16,000	NA	NA
Chromium	**130**	**92**	**210**	**160**	**68**	**44**	**57**	19	30	200
Cobalt	----	----	----	----	----	----	6.4	7.3	NA	NA
Copper	----	----	----	----	----	----	150	49	NA	NA
Iron	----	----	----	----	----	----	20,000	17,000	NA	NA
Lead	**560**	**2,990**	**1,720**	**700**	160	**2,390**	**2,100**	190	300	300
Magnesium	----	----	----	----	----	----	2,500	3,600	NA	NA
Manganese	----	----	----	----	----	----	310	280	NA	NA
Nickel	----	----	----	----	----	----	**25**	15	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	----	----	----	----	----	----	ND	ND	8	80
Vanadium	----	----	----	----	----	----	43	26	600	1,000
Zinc	----	----	----	----	----	----	860	790	2,500	5,000

NOTES:

1) Metals samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-INGICP6, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP); and EPA Region I SOP, EIASOP-INGXRF0.
2) All results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil.
   MCP S-3 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
   Bolded and shaded results exceed MCP S-1 and/or MCP S-3 standards. All units in mg/Kg.
5) ----- = Parameter not analyzed.
6) ND = Not Detected.
7) NA = Not Available.

TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION SAMPLE NUMBER SAMPLE DESCRIPTION SAMPLE DEPTH	SS-08C 12060001-0020 CONFIRMATION 2 - 3 ft.	SS-09A 12060001-0021 SCREENING 0 - 1 ft.	SS-09B 12060001-0023 SCREENING 1 - 2 ft.	SS-09C 12060001-0024 SCREENING 2 - 3 ft.	SS-10A 12060001-0025 SCREENING 0 - 1 ft.	SS-12A 12060001-0031 SCREENING 0 - 1 ft.	SS-13A 12060001-0032 CONFIRMATION 0 - 1 ft.	SS-13B 12060001-0034 CONFIRMATION 1 - 2 ft.	MASS DEP MCP STANDARDS S-1	MASS DEP MCP STANDARDS S-3
PARAMETER										
Aluminum	12,000	----	----	----	----	----	9,300	11,000	NA	NA
Antimony	ND	----	----	----	----	----	ND	4.5	20	30
Arsenic	**27**	**84**	**110**	**51**	ND	ND	**26**	**41**	20	20
Barium	120	660	620	550	600	600	370	600	1,000	5,000
Beryllium	ND	----	----	----	----	----	ND	ND	100	200
Cadmium	ND	ND	ND	ND	ND	ND	**2.0**	1.8	2	30
Calcium	5,200	----	----	----	----	----	9,700	5,900	NA	NA
Chromium	17	**100**	**87**	**140**	**62**	**75**	**30**	**37**	30	200
Cobalt	10	----	----	----	----	----	6.7	7.7	NA	NA
Copper	160	----	----	----	----	----	97	140	NA	NA
Iron	20,000	----	----	----	----	----	18,000	23,000	NA	NA
Lead	**320**	**1,410**	**960**	**540**	**1,890**	**1,310**	**1,500**	**3,900**	300	300
Magnesium	3,200	----	----	----	----	----	2,500	2,800	NA	NA
Manganese	450	----	----	----	----	----	290	380	NA	NA
Nickel	15	----	----	----	----	----	17	18	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	ND	----	----	----	----	----	ND	ND	8	80
Vanadium	31	----	----	----	----	----	38	39	600	1,000
Zinc	150	----	----	----	----	----	760	970	2,500	5,000

NOTES:

1) Metals samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-INGICP6, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP); and EPA Region I SOP, EIASOP-INGXRF0.
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   MCP S-3 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils.
   Bolded and shaded results exceed MCP S-1 and/or MCP S-3 standards. All units in mg/Kg.
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TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-13C	SS-14A	SS-14B	SS-14C	SS-16A	SS-16B	SS-16C	SS-17A	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0035	12060001-0036	12060001-0037	12060001-0038	12060001-0042	12060001-0043	12060001-0044	12060001-0045		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION		
SAMPLE DEPTH	2- 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	S-1	S-3
PARAMETER										
Aluminum	11,000	9,800	11,000	13,000	10,000	12,000	11,000	9,300	NA	NA
Antimony	4.3	ND	ND	ND	ND	ND	ND	ND	20	30
Arsenic	**38**	16	15	8.2	**31**	**63**	**53**	**20**	20	20
Barium	620	280	370	150	620	**1,100**	840	280	1,000	5,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Cadmium	ND	1.6	1.3	ND	**2.3**	**4.2**	**4.7**	1.7	2	30
Calcium	4,700	5,100	3,700	3,100	12,000	6,300	4,100	3,000	NA	NA
Chromium	**33**	29	26	21	**37**	**45**	**38**	**32**	30	200
Cobalt	7.4	6.7	8.8	7.9	7.3	9.3	8.1	6.6	NA	NA
Copper	120	100	99	49	110	130	150	130	NA	NA
Iron	23,000	18,000	20,000	20,000	20,000	24,000	23,000	18,000	NA	NA
Lead	**1,400**	**1,300**	**1,500**	**3,700**	**2,400**	**5,700**	**4,700**	**1,300**	300	300
Magnesium	2,900	2,700	3,000	3,600	3,200	3,300	3,200	2,500	NA	NA
Manganese	320	300	380	320	330	440	360	280	NA	NA
Nickel	16	**20**	18	14	18	17	13	18	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	8	80
Vanadium	35	48	36	33	42	39	31	57	600	1,000
Zinc	590	550	650	430	1,700	**4,800**	**5,300**	530	2,500	5,000

NOTES:

1) Metals samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-INGICP6, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP); and EPA Region I SOP, EIASOP-INGXRF0.
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TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-17B	SS-17C	SS-18A	SS-18B	SS-18C	SS-19A	SS-19B	SS-19C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0046	12060001-0047	12060001-0048	12060001-0049	12060001-0050	12060001-0051	12060001-0085	12060001-0053		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION		
SAMPLE DEPTH	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
PARAMETER										
Aluminum	11,000	12,000	9,000	11,000	9,300	10,000	9,300	11,000	NA	NA
Antimony	ND	ND	ND	ND	ND	ND	ND	2.2	20	30
Arsenic	18	13	17	**31**	**25**	8.3	**21**	**47**	20	20
Barium	280	240	320	600	370	180	650	970	1,000	5,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Cadmium	1.1	ND	1.4	**2.2**	1.5	ND	**3.1**	**5.2**	2	30
Calcium	2,700	2,500	10,000	4,200	3,100	5,500	9,900	5,600	NA	NA
Chromium	**31**	25	**31**	**40**	29	20	**43**	**46**	30	200
Cobalt	8.3	7.7	6.8	8.0	6.1	5.1	6.4	9.3	NA	NA
Copper	120	100	93	110	140	62	100	320	NA	NA
Iron	20,000	19,000	18,000	23,000	17,000	13,000	21,000	24,000	NA	NA
Lead	**1,100**	**750**	**1,100**	**1,600**	**1,100**	**720**	**3,000**	**3,400**	300	300
Magnesium	3,200	3,400	2,900	3,200	2,900	2,400	3,000	2,700	NA	NA
Manganese	370	320	290	360	290	250	320	390	NA	NA
Nickel	17	14	19	**20**	14	11	**20**	18	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	2.5	ND	ND	ND	ND	ND	ND	ND	8	80
Vanadium	44	37	47	43	28	26	71	46	600	1,000
Zinc	660	460	530	640	690	300	1,200	**2,500**	2,500	5,000

NOTES:

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TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-20A	SS-20B	SS-20C	SS-21A	SS-21B	SS-21C	SS-22A	SS-22B	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0054	12060001-0055	12060001-0056	12060001-0057	12060001-0058	12060001-0059	12060001-0060	12060001-0061		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	SCREENING	SCREENING		
SAMPLE DEPTH	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	S-1	S-3
PARAMETER										
Aluminum	11,000	13,000	13,000	10,000	11,000	13,000	----	----	NA	NA
Antimony	ND	ND	ND	ND	ND	ND	----	----	20	30
Arsenic	9.6	7.8	12	9.4	15	**21**	ND	ND	20	20
Barium	130	94	200	180	340	430	490	**1,020**	1,000	5,000
Beryllium	ND	ND	ND	ND	ND	ND	----	----	100	200
Cadmium	ND	ND	ND	ND	1.6	1.9	ND	ND	2	30
Calcium	2,900	2,700	3,600	7,900	4,300	4,600	----	----	NA	NA
Chromium	24	24	26	23	**31**	**43**	**59**	**69**	30	200
Cobalt	7.4	8.9	9.8	4.9	8.0	8.9	----	----	NA	NA
Copper	64	47	72	57	100	260	----	----	NA	NA
Iron	19,000	20,000	23,000	14,000	21,000	26,000	----	----	NA	NA
Lead	**440**	250	**450**	**920**	**1,100**	**1,400**	**750**	**1,580**	300	300
Magnesium	3,400	3,800	4,200	2,500	3,100	3,800	----	----	NA	NA
Manganese	310	340	450	220	360	410	----	----	NA	NA
Nickel	15	16	16	12	17	**22**	----	----	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	ND	ND	ND	ND	ND	ND	----	----	8	80
Vanadium	35	36	36	31	48	44	----	----	600	1,000
Zinc	310	190	350	310	590	860	----	----	2,500	5,000

NOTES:

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TABLE 4

SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-22C	SS-23A	SS-23B	SS-23C	SS-24A	SS-24B	SS-24C	SS-25A	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0062	12060001-0063	12060001-0064	12060001-0065	12060001-0066	12060001-0067	12060001-0068	12060001-0069		
SAMPLE DESCRIPTION	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING		
SAMPLE DEPTH	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	S-1	S-3
PARAMETER										
Aluminum	----	----	----	----	----	----	----	----	NA	NA
Antimony	----	----	----	----	----	----	----	----	20	30
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	20	20
Barium	580	440	490	360	260	400	440	370	1,000	5,000
Beryllium	----	----	----	----	----	----	----	----	100	200
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	2	30
Calcium	----	----	----	----	----	----	----	----	NA	NA
Chromium	**64**	**43**	**52**	ND	ND	**55**	**48**	**48**	30	200
Cobalt	----	----	----	----	----	----	----	----	NA	NA
Copper	----	----	----	----	----	----	----	----	NA	NA
Iron	----	----	----	----	----	----	----	----	NA	NA
Lead	**940**	**520**	**550**	130	110	**610**	**580**	**440**	300	300
Magnesium	----	----	----	----	----	----	----	----	NA	NA
Manganese	----	----	----	----	----	----	----	----	NA	NA
Nickel	----	----	----	----	----	----	----	----	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	----	----	----	----	----	----	----	----	8	80
Vanadium	----	----	----	----	----	----	----	----	600	1,000
Zinc	----	----	----	----	----	----	----	----	2,500	5,000

NOTES:

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SUMMARY OF METALS RESULTS
SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-25B	SS-25C	SS-26A	SS-26B	SS-26C	SS-27A	SS-27B	SS-27C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0070	12060001-0071	12060001-0072	12060001-0073	12060001-0074	12060001-0075	12060001-0076	12060001-0077		
SAMPLE DESCRIPTION	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING	SCREENING		
SAMPLE DEPTH	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
PARAMETER										
Aluminum	----	----	----	----	----	----	----	----	NA	NA
Antimony	----	----	----	----	----	----	----	----	20	30
Arsenic	ND	ND	ND	ND	ND	ND	ND	ND	20	20
Barium	560	**2,020**	460	520	610	370	400	460	1,000	5,000
Beryllium	----	----	----	----	----	----	----	----	100	200
Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	2	30
Calcium	----	----	----	----	----	----	----	----	NA	NA
Chromium	**56**	**62**	**49**	**47**	**52**	ND	ND	**44**	30	200
Cobalt	----	----	----	----	----	----	----	----	NA	NA
Copper	----	----	----	----	----	----	----	----	NA	NA
Iron	----	----	----	----	----	----	----	----	NA	NA
Lead	**930**	**4,630**	**760**	**720**	**1,040**	**530**	**530**	**720**	300	300
Magnesium	----	----	----	----	----	----	----	----	NA	NA
Manganese	----	----	----	----	----	----	----	----	NA	NA
Nickel	----	----	----	----	----	----	----	----	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	----	----	----	----	----	----	----	----	8	80
Vanadium	----	----	----	----	----	----	----	----	600	1,000
Zinc	----	----	----	----	----	----	----	----	2,500	5,000

NOTES:

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SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-28A	SS-29A	SS-30A	SS-30B	SS-30C	SS-31A	SS-31B	SS-31C	MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0078	12060001-0079	12060001-0080	12060001-0086	12060001-0081	12060001-0082	12060001-0083	12060001-0084		
SAMPLE DESCRIPTION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION	CONFIRMATION		
SAMPLE DEPTH	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	0 - 1 ft.	1 - 2 ft.	2 - 3 ft.	S-1	S-3
PARAMETER										
Aluminum	9,700	11,000	9,900	9,700	7,400	11,000	10,000	8,800	NA	NA
Antimony	ND	ND	ND	2.2	ND	ND	ND	ND	20	30
Arsenic	8.7	8.4	13	14	**23**	13	12	15	20	20
Barium	320	200	270	300	270	330	330	710	1,000	5,000
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Cadmium	1.4	**2.2**	**2.6**	**3.2**	**11**	**2.7**	ND	**3.3**	2	30
Calcium	3,500	3,300	4,900	5,300	4,500	5,400	5,200	4,600	NA	NA
Chromium	24	23	27	26	**34**	28	21	26	30	200
Cobalt	6.3	5.8	8.3	9.0	8.5	9.3	7.6	6.0	NA	NA
Copper	110	67	140	160	350	170	130	170	NA	NA
Iron	17,000	16,000	25,000	20,000	36,000	25,000	21,000	19,000	NA	NA
Lead	**990**	**780**	**930**	**880**	**1,200**	**1,300**	**1,100**	**2,700**	300	300
Magnesium	2,400	2,300	2,700	2,600	2,700	2,700	2,600	2,300	NA	NA
Manganese	270	280	350	300	340	360	310	250	NA	NA
Nickel	19	15	**26**	**25**	**32**	**27**	18	19	20	700
Selenium	ND	ND	ND	ND	ND	ND	ND	ND	400	800
Silver	ND	ND	ND	ND	ND	ND	ND	ND	100	200
Thallium	ND	ND	ND	ND	ND	ND	ND	ND	8	80
Vanadium	46	39	48	40	32	52	33	32	600	1,000
Zinc	400	260	720	740	1,700	810	510	1,000	2,500	5,000

NOTES:

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SURFACE AND SUBSURFACE SOIL SAMPLES
KILEY BARREL ALLEN STREET SITE
SOMERVILLE, MASSACHUSETTS
mg/Kg

SAMPLE LOCATION	SS-32A	SS-33A	SS-34A	SS-35A	SS-36A				MASS DEP MCP STANDARDS	
SAMPLE NUMBER	12060001-0007	12060001-0014	12060001-0022	12060001-0033	12060001-0052					
SAMPLE DESCRIPTION	CONFIRMATION	SCREENING	SCREENING	CONFIRMATION	CONFIRMATION					
SAMPLE DEPTH	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.	0 - 1 ft.				S-1	S-3
PARAMETER										
Aluminum	9,000	----	----	9,800	8,900				NA	NA
Antimony	2.5	----	----	ND	ND				20	30
Arsenic	**79**	**74**	**64**	11	**49**				20	20
Barium	980	770	640	180	680				1,000	5,000
Beryllium	ND	----	----	ND	ND				100	200
Cadmium	**3.0**	ND	ND	ND	**2.5**				2	30
Calcium	5,300	----	----	7,100	5,600				NA	NA
Chromium	**50**	**210**	**78**	22	**46**				30	200
Cobalt	7.7	----	----	5.1	8.4				NA	NA
Copper	160	----	----	69	200				NA	NA
Iron	23,000	----	----	15,000	23,000				NA	NA
Lead	**4,200**	**1,680**	**1,240**	**870**	**2,600**				300	300
Magnesium	2,200	----	----	2,400	2,700				NA	NA
Manganese	330	----	----	210	350				NA	NA
Nickel	**27**	----	----	12	**38**				20	700
Selenium	ND	ND	ND	ND	ND				400	800
Silver	ND	ND	ND	ND	ND				100	200
Thallium	ND	----	----	ND	ND				8	80
Vanadium	44	----	----	31	47				600	1,000
Zinc	1,000	----	----	320	950				2,500	5,000

NOTES:

1) Metals samples analyzed by U.S. EPA Office of Environmental Measurement and Evaluation (OEME) using EPA Region I SOP, EIASOP-INGICP6, Metals in Soil Medium Level by Inductively Coupled Plasma (ICP); and EPA Region I SOP, EIASOP-INGXRF0.
2) All results in Milligrams per Kilogram (mg/Kg).
3) MASS DEP= Massachusetts Department of Environmental Protection.
4) MCP S-1 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for accessible surficial soil. MCP S-3 = Massachusetts Contingency Plan Method 2: Direct Contact Exposure-Based Soil Concentrations for isolated sub-surface soils. Bolded and shaded results exceed MCP S-1 and/or MCP S-3 standards. All units in mg/Kg.
5) ----- = Parameter not analyzed.
6) ND = Not Detected.
7) NA = Not Available.

Appendix D

Photodocumentation Log

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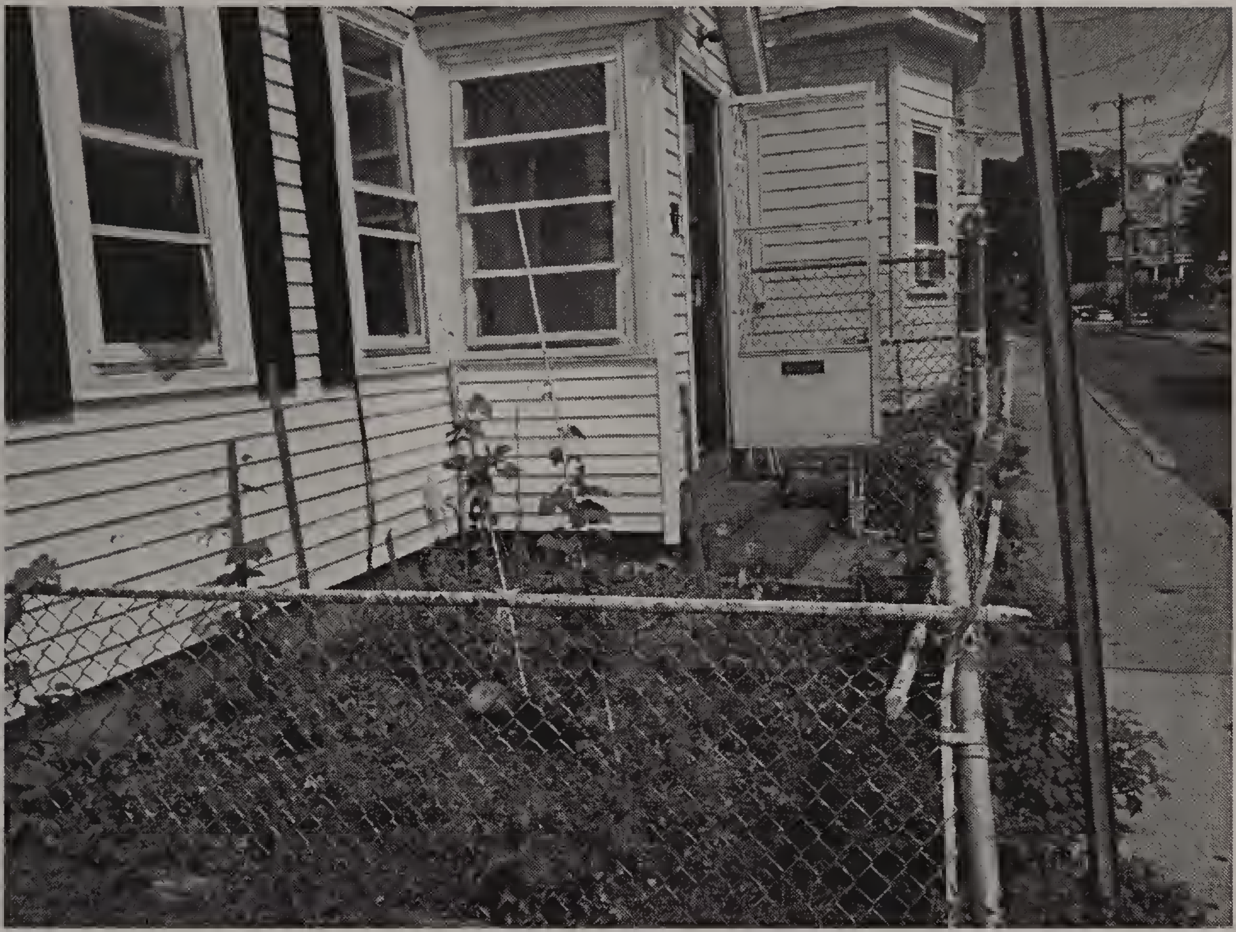
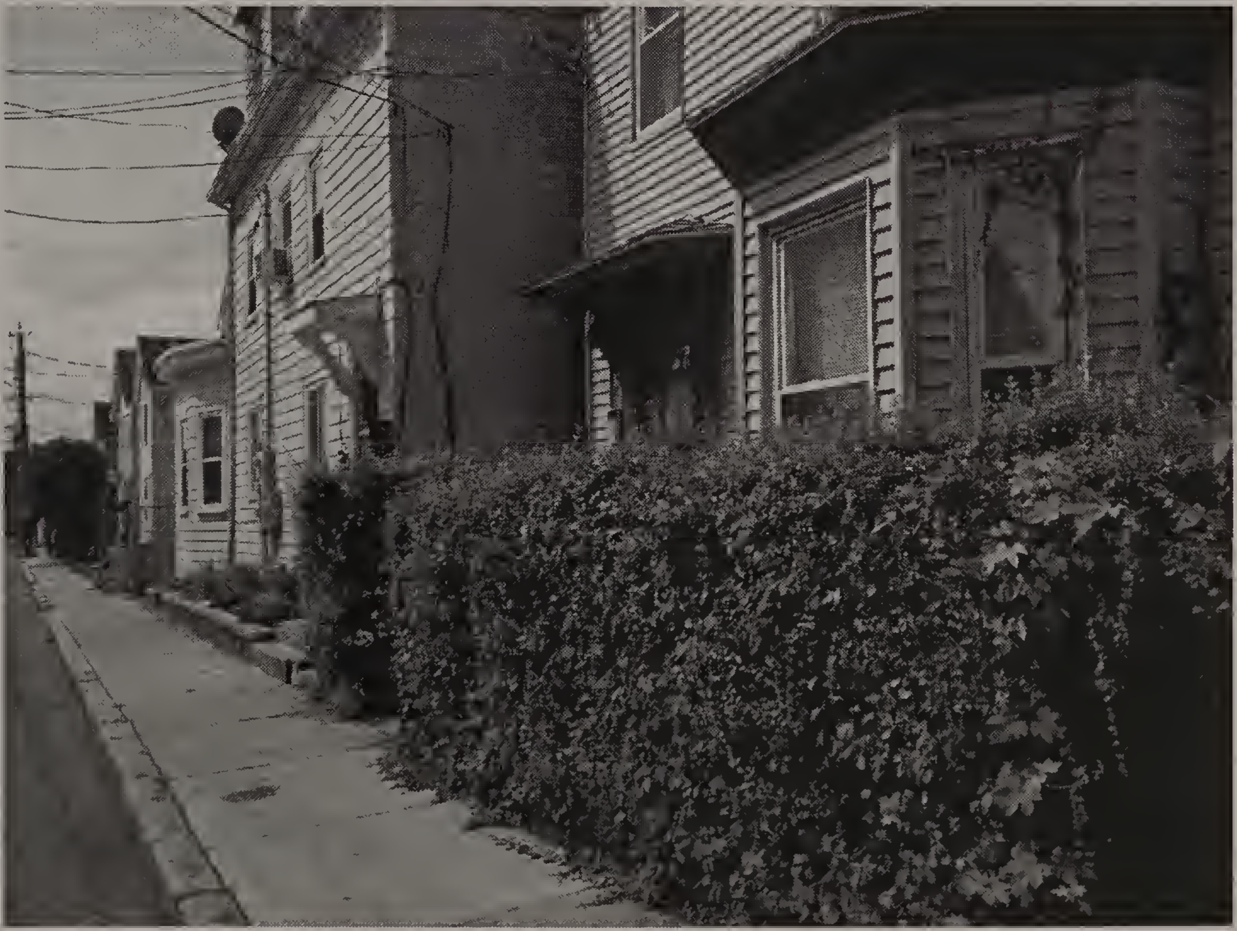
PHOTODOCUMENTATION LOG
Kiley Barrel Allen Street Site • Somerville, Massachusetts



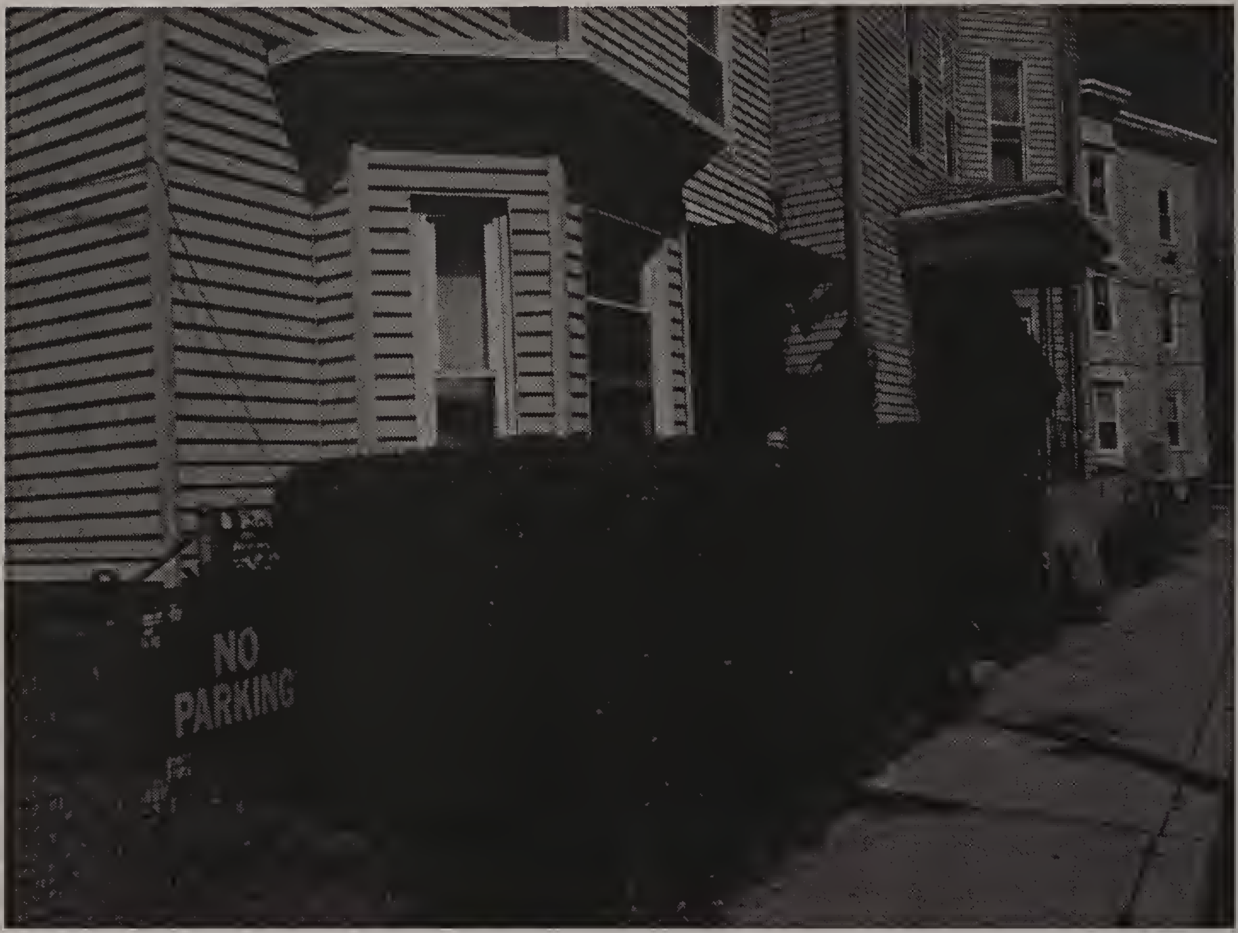
SCENE: View of the 17 Allen Street property. Photograph taken facing north.

DATE: 15 August 2012 **TIME:** 1106 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S



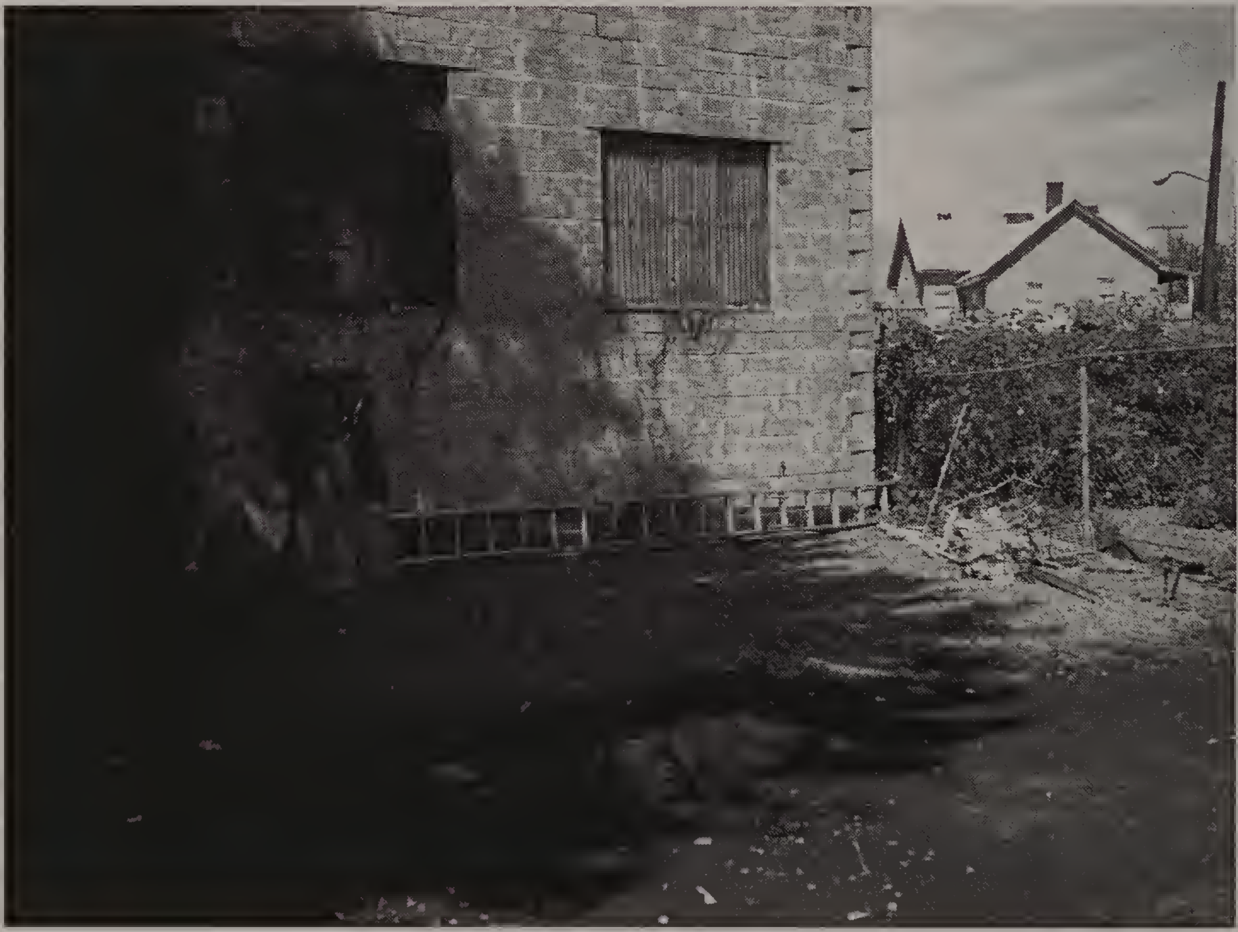
SCENE: View of the 11 and 13 Allen Street properties. Photograph taken facing south.

DATE: 15 August 2012 **TIME:** 1109 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S



SCENE: View of the 9 Allen Street property. Photograph taken facing north.

DATE: 15 August 2012
PHOTOGRAPHER: Christine Scesny
TIME: 1118 hours
CAMERA: iPhone 4S



SCENE: View of the backyard of the 17 Allen Street property. Photograph taken facing west.

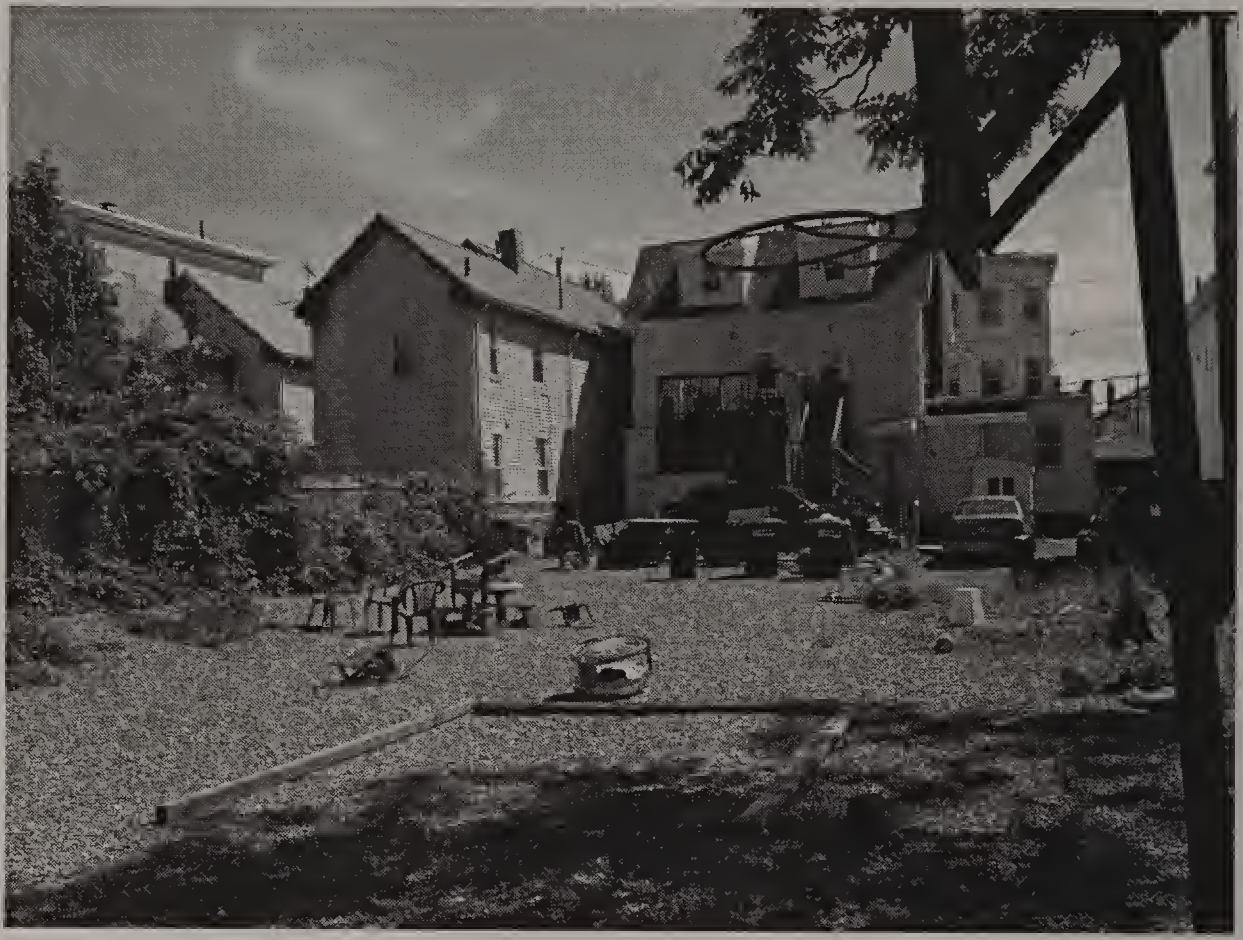
DATE: 15 August 2012
PHOTOGRAPHER: Christine Scesny
TIME: 1118 hours
CAMERA: iPhone 4S

SCENE: View of the paved backyard area at 17 Allen Street. Photograph taken facing northeast.

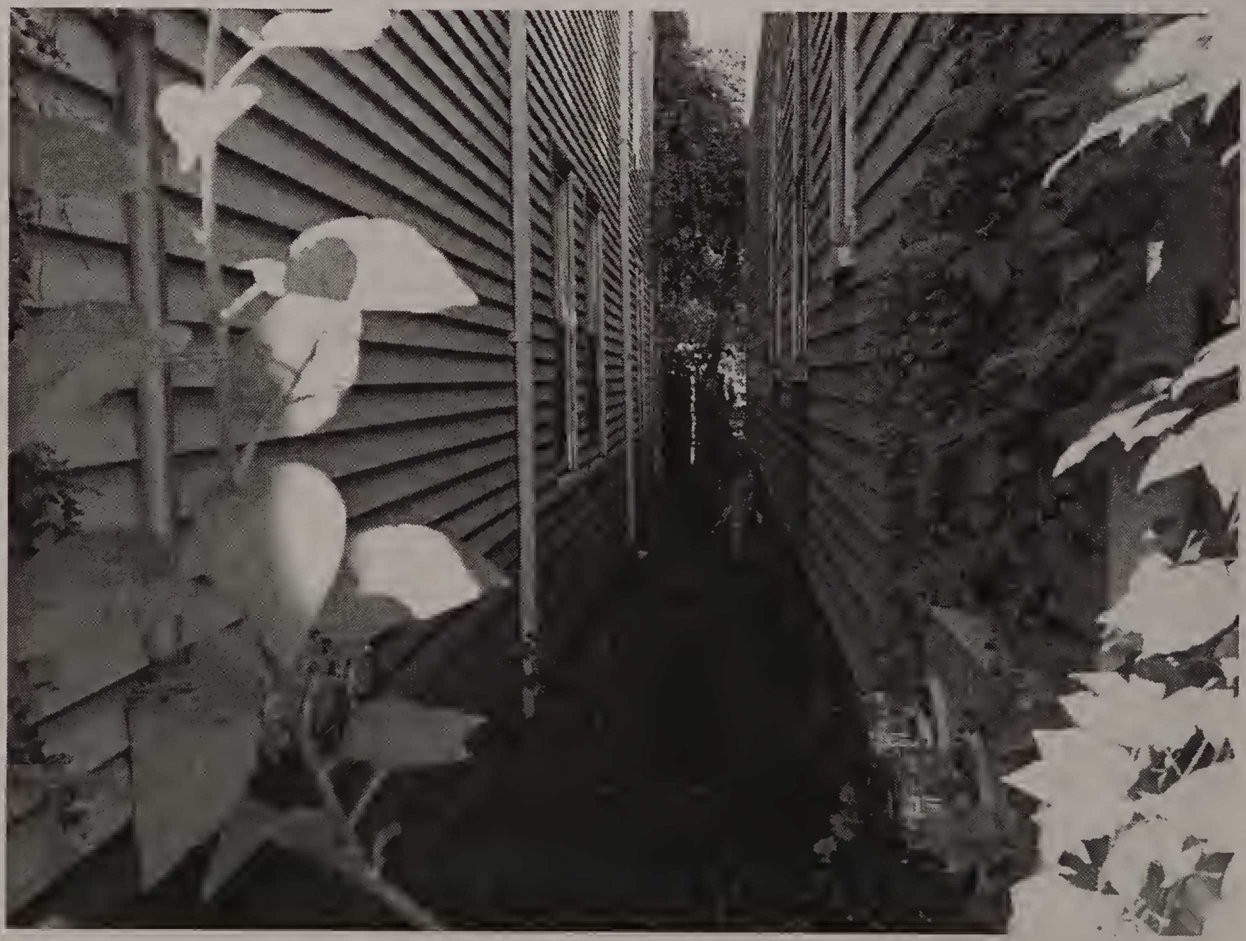
DATE: 15 August 2012 **TIME:** 1120 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S

SCENE: View of the backyard of the 13 Allen Street property. The Former Kiley Barrel site abuts the west side of this property. Photograph taken facing west.
DATE: 15 August 2012 **TIME:** 1129 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S

PHOTODOCUMENTATION LOG
Kiley Barrel Allen Street Site • Somerville, Massachusetts

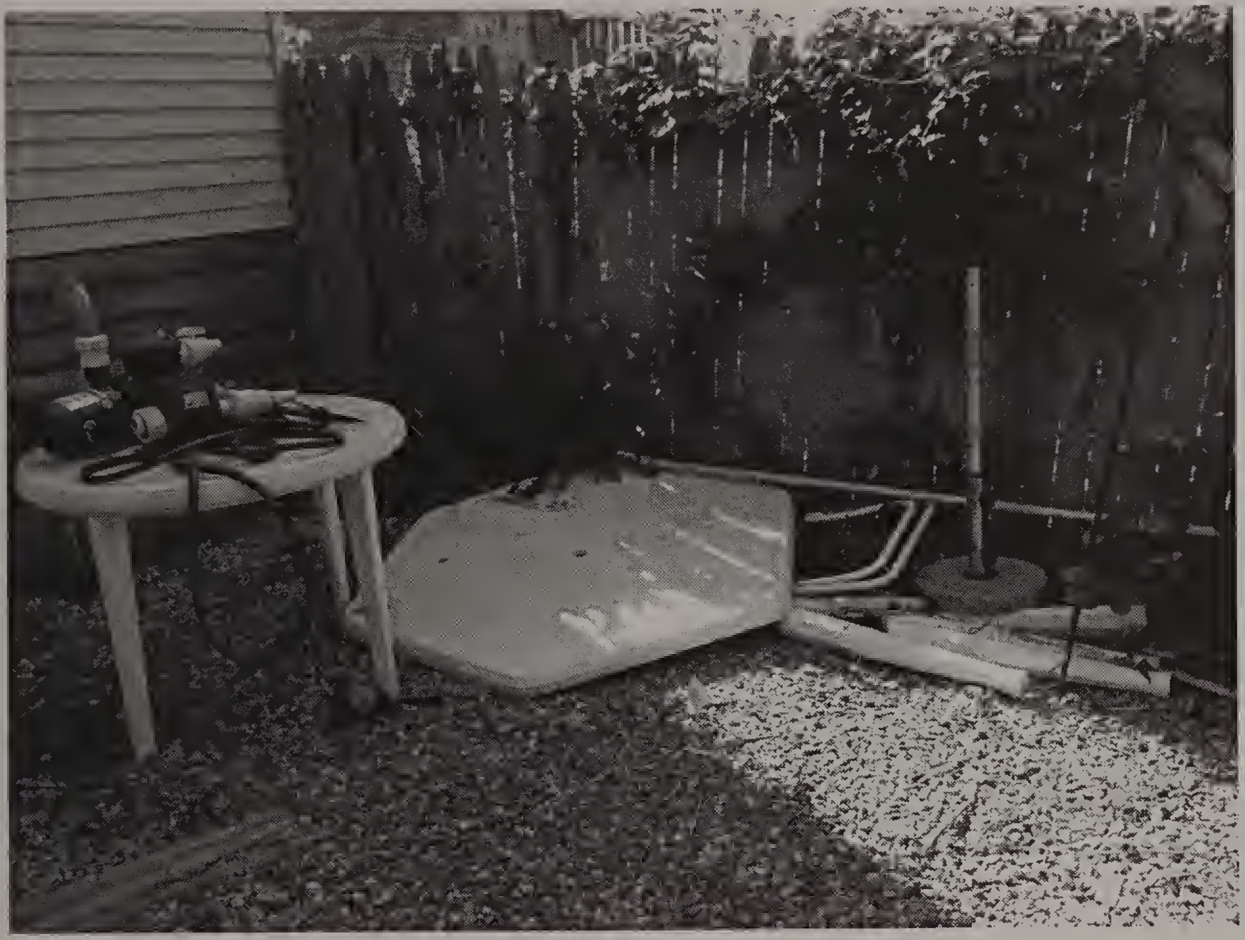


SCENE: View of the backyard of the 13 Allen Street property. Photograph taken facing east.
DATE: 15 August 2012 **TIME:** 1129 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S



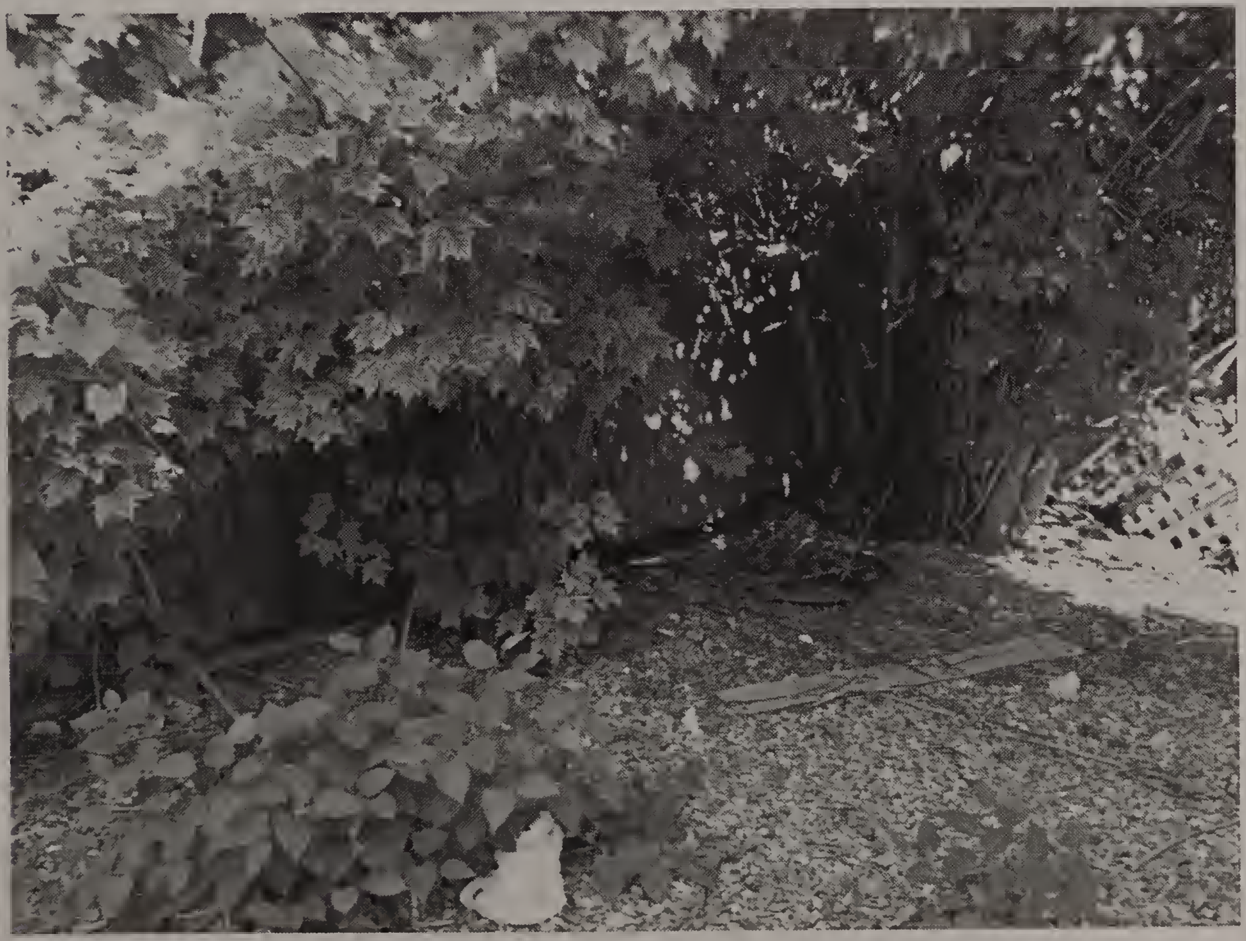
SCENE: View of a narrow side yard area of the 9 Allen Street property. The 9 Allen Street property is to the left in this photograph. Photograph taken facing west.
DATE: 15 August 2012 **TIME:** 1139 hours
PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S

PHOTODOCUMENTATION LOG
Kiley Barrel Allen Street Site • Somerville, Massachusetts



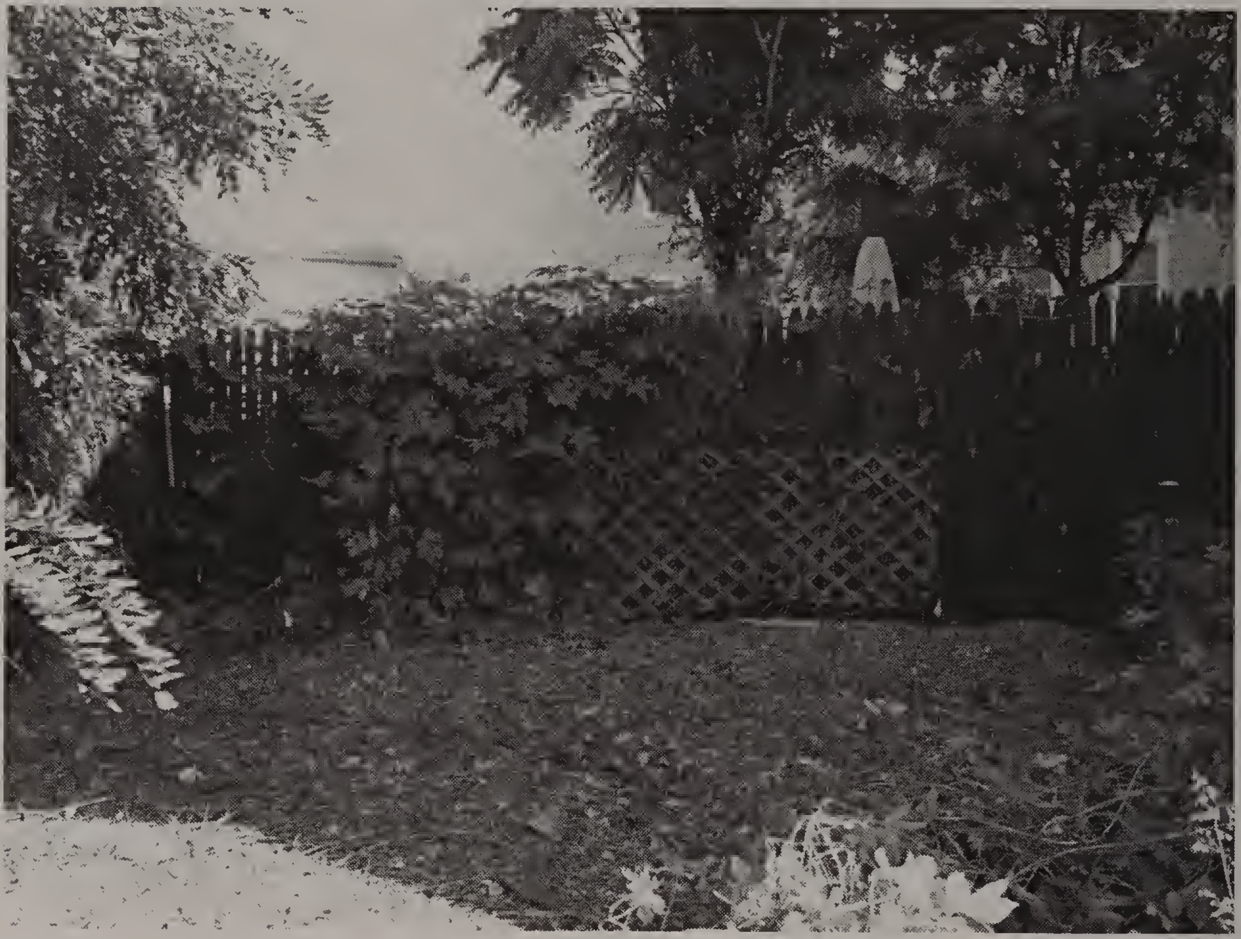
SCENE: View of the backyard of the 11 Allen Street property. Photograph taken facing southeast.

DATE: 22 August 2012
PHOTOGRAPHER: Christine Scesny
TIME: 0948 hours
CAMERA: iPhone 4S



SCENE: View of the backyard of the 11 Allen Street property. The Former Kiley Barrel site abuts this property to the west. Photograph taken facing northwest.
DATE: 22 August 2012
PHOTOGRAPHER: Christine Scesny
TIME: 0949 hours
CAMERA: iPhone 4S

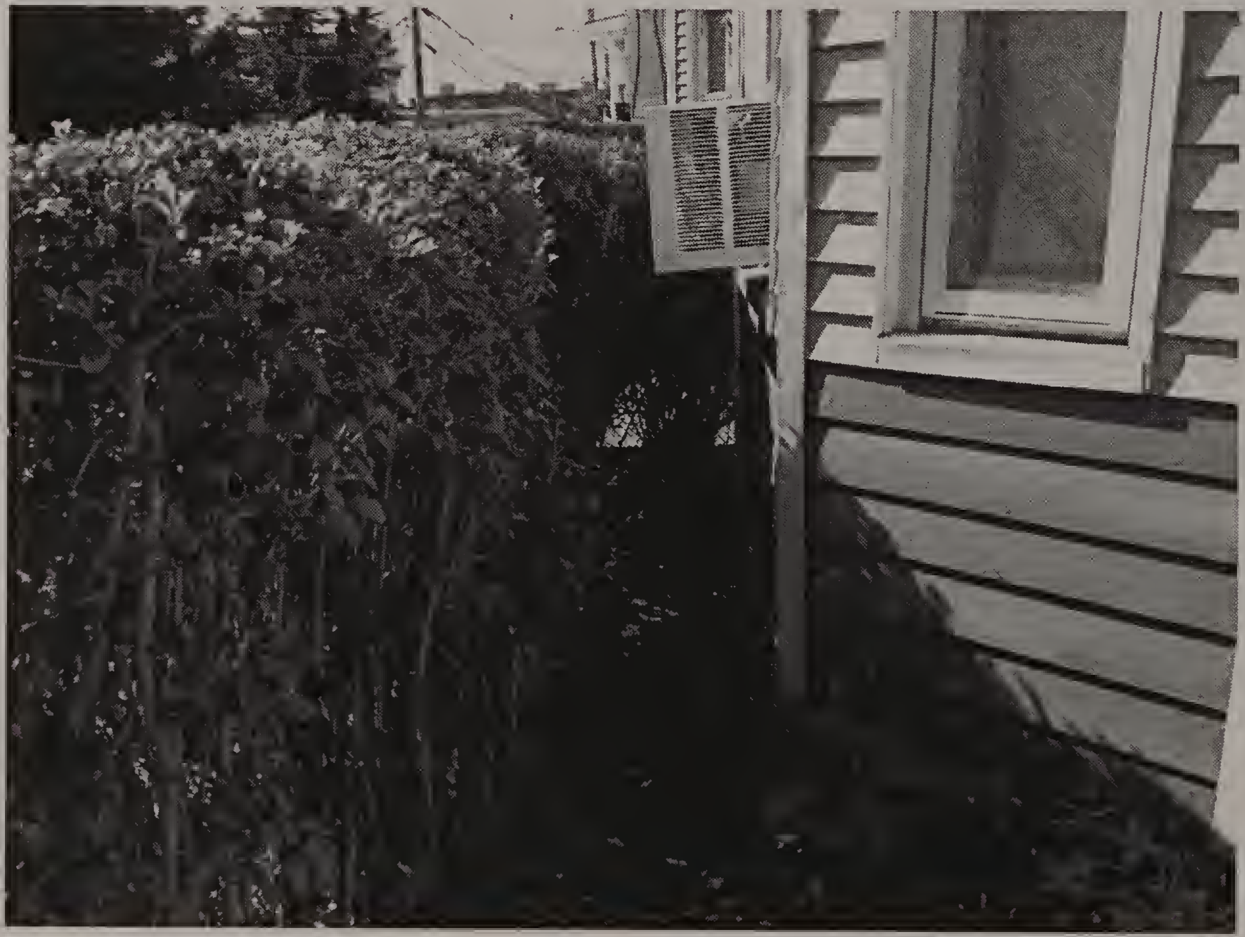
PHOTODOCUMENTATION LOG
Kiley Barrel Allen Street Site • Somerville, Massachusetts



SCENE: View of the backyard of the 9 Allen Street property. The Former Kiley Barrel site abuts this property to the west. Photograph taken facing northwest.

DATE: 22 August 2012 **TIME:** 0931 hours

PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S



SCENE: View of the front yard area of the 9 Allen Street property. Photograph taken facing south.

DATE: 22 August 2012 **TIME:** 0940 hours

PHOTOGRAPHER: Christine Scesny **CAMERA:** iPhone 4S

Appendix E

Chain-of-Custody Records and Analytical Data

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Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

August 30, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.30 09:25:20 -04'00'

Qualifiers:
- RL = Reporting limit
- ND = Not Detected above Reporting limit
- NA = Not Applicable due to high sample dilutions or sample interferences
- NC = Not calculated since analyte concentration is ND.
- J = Estimated value
- E = Estimated value exceeds the calibration range
- L = Estimated value is below the calibration range
- B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
- R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	84%
Dry Weight Extracted:	6.139 grams	Extract Dilution:	50
Wet Weight Extracted:	7.308 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	91	
71-55-6	1,1,1-Trichloroethane	ND	91	
79-34-5	1,1,2,2-Tetrachloroethane	ND	91	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	91	
79-00-5	1,1,2-Trichloroethane	ND	91	
75-35-4	1,1-Dichloroethylene	ND	91	
563-58-6	1,1-Dichloropropene	ND	91	
75-34-3	1,1-dichloroethane	ND	91	
87-61-6	1,2,3-Trichlorobenzene	ND	91	
96-18-4	1,2,3-Trichloropropane	ND	91	
120-82-1	1,2,4-Trichlorobenzene	ND	91	
95-63-6	1,2,4-Trimethylbenzene	ND	91	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	91	
106-93-4	1,2-Dibromoethane	ND	91	
95-50-1	1,2-Dichlorobenzene	ND	91	
107-06-2	1,2-Dichloroethane	ND	91	
78-87-5	1,2-Dichloropropane	ND	91	
108-67-8	1,3,5-Trimethylbenzene	ND	91	
541-73-1	1,3-Dichlorobenzene	ND	91	
142-28-9	1,3-Dichloropropane	ND	91	
106-46-7	1,4-Dichlorobenzene	ND	91	
594-20-7	2,2-Dichloropropane	ND	91	
78-93-3	2-Butanone (MEK)	ND	91	
95-49-8	2-Chlorotoluene	ND	91	
591-78-6	2-Hexanone	ND	91	
67-64-1	2-Propanone (acetone)	ND	91	J
106-43-4	4-Chlorotoluene	ND	91	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	91	
107-13-1	Acrylonitrile	ND	91	
71-43-2	Benzene	ND	91	
108-86-1	Bromobenzene	ND	91	
74-97-5	Bromochloromethane	ND	91	
75-27-4	Bromodichloromethane	ND	91	
75-25-2	Bromoform	ND	91	
74-83-9	Bromomethane	ND	91	
75-15-0	Carbon Disulfide	ND	91	
56-23-5	Carbon tetrachloride	ND	91	
108-90-7	Chlorobenzene	ND	91	
75-00-3	Chloroethane	ND	91	
67-66-3	Chloroform	ND	91	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	84%
Dry Weight Extracted:	6.139 grams	Extract Dilution:	50
Wet Weight Extracted:	7.308 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	91	
124-48-1	Dibromochloromethane	ND	91	
74-95-3	Dibromomethane	ND	91	
75-71-8	Dichlorodifluoromethane	ND	91	
60-29-7	Ethyl Ether	ND	91	
100-41-4	Ethylbenzene	ND	91	
87-68-3	Hexachlorobutadiene	ND	91	
98-82-8	Isopropylbenzene	ND	91	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	91	
75-09-2	Methylene Chloride	ND	91	
104-51-8	N-Butylbenzene	ND	91	
103-65-1	N-Propylbenzene	ND	91	
91-20-3	Naphthalene	ND	91	
95-47-6	Ortho Xylene	ND	91	
99-87-6	Para-Isopropyltoluene	ND	91	
135-98-8	Sec-Butylbenzene	ND	91	
100-42-5	Styrene	ND	91	
98-06-6	Tert-Butylbenzene	ND	91	
127-18-4	Tetrachloroethylene	ND	91	
109-99-9	Tetrahydrofuran	ND	91	
108-88-3	Toluene	ND	91	
156-60-5	Trans-1,2-Dichloroethylene	ND	91	
79-01-6	Trichloroethylene	ND	91	
75-69-4	Trichlorofluoromethane	ND	91	
108-05-4	Vinyl Acetate	ND	91	
75-01-4	Vinyl Chloride	ND	91	
10061-01-5	c-1,3-dichloropropene	ND	91	
156-59-2	cis-1,2-Dichloroethylene	ND	91	
10061-02-6	t-1,3-Dichloropropene	ND	91	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	107	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	J
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	**Compound**	**Concentration ug/Kg**	**RL ug/Kg**	**Qualifier**
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	88	78 - 111

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with sample(s) AB32124 (MS/MS and Duplicate Studies) - AB32131.

Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	6.531 grams	Extract Dilution:	50
Wet Weight Extracted:	7.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	80	
71-55-6	1,1,1-Trichloroethane	ND	80	
79-34-5	1,1,2,2-Tetrachloroethane	ND	80	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	80	
79-00-5	1,1,2-Trichloroethane	ND	80	
75-35-4	1,1-Dichloroethylene	ND	80	
563-58-6	1,1-Dichloropropene	ND	80	
75-34-3	1,1-dichloroethane	ND	80	
87-61-6	1,2,3-Trichlorobenzene	ND	80	
96-18-4	1,2,3-Trichloropropane	ND	80	
120-82-1	1,2,4-Trichlorobenzene	ND	80	
95-63-6	1,2,4-Trimethylbenzene	ND	80	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	80	
106-93-4	1,2-Dibromoethane	ND	80	
95-50-1	1,2-Dichlorobenzene	ND	80	
107-06-2	1,2-Dichloroethane	ND	80	
78-87-5	1,2-Dichloropropane	ND	80	
108-67-8	1,3,5-Trimethylbenzene	ND	80	
541-73-1	1,3-Dichlorobenzene	ND	80	
142-28-9	1,3-Dichloropropane	ND	80	
106-46-7	1,4-Dichlorobenzene	ND	80	
594-20-7	2,2-Dichloropropane	ND	80	
78-93-3	2-Butanone (MEK)	ND	80	
95-49-8	2-Chlorotoluene	ND	80	
591-78-6	2-Hexanone	ND	80	
67-64-1	2-Propanone (acetone)	ND	80	J
106-43-4	4-Chlorotoluene	ND	80	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	80	
107-13-1	Acrylonitrile	ND	80	
71-43-2	Benzene	ND	80	
108-86-1	Bromobenzene	ND	80	
74-97-5	Bromochloromethane	ND	80	
75-27-4	Bromodichloromethane	ND	80	
75-25-2	Bromoform	ND	80	
74-83-9	Bromomethane	ND	80	
75-15-0	Carbon Disulfide	ND	80	
56-23-5	Carbon tetrachloride	ND	80	
108-90-7	Chlorobenzene	ND	80	
75-00-3	Chloroethane	ND	80	
67-66-3	Chloroform	ND	80	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	6.531 grams	Extract Dilution:	50
Wet Weight Extracted:	7.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	80	
124-48-1	Dibromochloromethane	ND	80	
74-95-3	Dibromomethane	ND	80	
75-71-8	Dichlorodifluoromethane	ND	80	
60-29-7	Ethyl Ether	ND	80	
100-41-4	Ethylbenzene	ND	80	
87-68-3	Hexachlorobutadiene	ND	80	
98-82-8	Isopropylbenzene	ND	80	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	80	
75-09-2	Methylene Chloride	ND	80	
104-51-8	N-Butylbenzene	ND	80	
103-65-1	N-Propylbenzene	ND	80	
91-20-3	Naphthalene	ND	80	
95-47-6	Ortho Xylene	ND	80	
99-87-6	Para-Isopropyltoluene	ND	80	
135-98-8	Sec-Butylbenzene	ND	80	
100-42-5	Styrene	ND	80	
98-06-6	Tert-Butylbenzene	ND	80	
127-18-4	Tetrachloroethylene	ND	80	
109-99-9	Tetrahydrofuran	ND	80	
108-88-3	Toluene	ND	80	
156-60-5	Trans-1,2-Dichloroethylene	ND	80	
79-01-6	Trichloroethylene	ND	80	
75-69-4	Trichlorofluoromethane	ND	80	
108-05-4	Vinyl Acetate	ND	80	
75-01-4	Vinyl Chloride	ND	80	
10061-01-5	c-1,3-dichloropropene	ND	80	
156-59-2	cis-1,2-Dichloroethylene	ND	80	
10061-02-6	t-1,3-Dichloropropene	ND	80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	89	78 - 111
1,2-Dichloroethane-D4	99	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	5.814 grams	Extract Dilution:	50
Wet Weight Extracted:	6.760 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	94	
71-55-6	1,1,1-Trichloroethane	ND	94	
79-34-5	1,1,2,2-Tetrachloroethane	ND	94	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	94	
79-00-5	1,1,2-Trichloroethane	ND	94	
75-35-4	1,1-Dichloroethylene	ND	94	
563-58-6	1,1-Dichloropropene	ND	94	
75-34-3	1,1-dichloroethane	ND	94	
87-61-6	1,2,3-Trichlorobenzene	ND	94	
96-18-4	1,2,3-Trichloropropane	ND	94	
120-82-1	1,2,4-Trichlorobenzene	ND	94	
95-63-6	1,2,4-Trimethylbenzene	ND	94	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	94	
106-93-4	1,2-Dibromoethane	ND	94	
95-50-1	1,2-Dichlorobenzene	ND	94	
107-06-2	1,2-Dichloroethane	ND	94	
78-87-5	1,2-Dichloropropane	ND	94	
108-67-8	1,3,5-Trimethylbenzene	ND	94	
541-73-1	1,3-Dichlorobenzene	ND	94	
142-28-9	1,3-Dichloropropane	ND	94	
106-46-7	1,4-Dichlorobenzene	ND	94	
594-20-7	2,2-Dichloropropane	ND	94	
78-93-3	2-Butanone (MEK)	ND	94	
95-49-8	2-Chlorotoluene	ND	94	
591-78-6	2-Hexanone	ND	94	
67-64-1	2-Propanone (acetone)	ND	94	J
106-43-4	4-Chlorotoluene	ND	94	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	94	
107-13-1	Acrylonitrile	ND	94	
71-43-2	Benzene	ND	94	
108-86-1	Bromobenzene	ND	94	
74-97-5	Bromochloromethane	ND	94	
75-27-4	Bromodichloromethane	ND	94	
75-25-2	Bromoform	ND	94	
74-83-9	Bromomethane	ND	94	
75-15-0	Carbon Disulfide	ND	94	
56-23-5	Carbon tetrachloride	ND	94	
108-90-7	Chlorobenzene	ND	94	
75-00-3	Chloroethane	ND	94	
67-66-3	Chloroform	ND	94	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	5.814 grams	Extract Dilution:	50
Wet Weight Extracted:	6.760 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	94	
124-48-1	Dibromochloromethane	ND	94	
74-95-3	Dibromomethane	ND	94	
75-71-8	Dichlorodifluoromethane	ND	94	
60-29-7	Ethyl Ether	ND	94	
100-41-4	Ethylbenzene	ND	94	
87-68-3	Hexachlorobutadiene	ND	94	
98-82-8	Isopropylbenzene	ND	94	
108-38-3/106-42-	M/P Xylene	ND	190	
1634-04-4	Methyl-t-Butyl Ether	ND	94	
75-09-2	Methylene Chloride	ND	94	
104-51-8	N-Butylbenzene	ND	94	
103-65-1	N-Propylbenzene	ND	94	
91-20-3	Naphthalene	ND	94	
95-47-6	Ortho Xylene	ND	94	
99-87-6	Para-Isopropyltoluene	ND	94	
135-98-8	Sec-Butylbenzene	ND	94	
100-42-5	Styrene	ND	94	
98-06-6	Tert-Butylbenzene	ND	94	
127-18-4	Tetrachloroethylene	ND	94	
109-99-9	Tetrahydrofuran	ND	94	
108-88-3	Toluene	ND	94	
156-60-5	Trans-1,2-Dichloroethylene	ND	94	
79-01-6	Trichloroethylene	ND	94	
75-69-4	Trichlorofluoromethane	ND	94	
108-05-4	Vinyl Acetate	ND	94	
75-01-4	Vinyl Chloride	ND	94	
10061-01-5	c-1,3-dichloropropene	ND	94	
156-59-2	cis-1,2-Dichloroethylene	ND	94	
10061-02-6	t-1,3-Dichloropropene	ND	94	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	107	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	92%
Dry Weight Extracted:	6.364 grams	Extract Dilution:	50
Wet Weight Extracted:	6.917 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	83	
71-55-6	1,1,1-Trichloroethane	ND	83	
79-34-5	1,1,2,2-Tetrachloroethane	ND	83	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethа	ND	83	
79-00-5	1,1,2-Trichloroethane	ND	83	
75-35-4	1,1-Dichloroethylene	ND	83	
563-58-6	1,1-Dichloropropene	ND	83	
75-34-3	1,1-dichloroethane	ND	83	
87-61-6	1,2,3-Trichlorobenzene	ND	83	
96-18-4	1,2,3-Trichloropropane	ND	83	
120-82-1	1,2,4-Trichlorobenzene	ND	83	
95-63-6	1,2,4-Trimethylbenzene	ND	83	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	83	
106-93-4	1,2-Dibromoethane	ND	83	
95-50-1	1,2-Dichlorobenzene	ND	83	
107-06-2	1,2-Dichloroethane	ND	83	
78-87-5	1,2-Dichloropropane	ND	83	
108-67-8	1,3,5-Trimethylbenzene	ND	83	
541-73-1	1,3-Dichlorobenzene	ND	83	
142-28-9	1,3-Dichloropropane	ND	83	
106-46-7	1,4-Dichlorobenzene	ND	83	
594-20-7	2,2-Dichloropropane	ND	83	
78-93-3	2-Butanone (MEK)	ND	83	
95-49-8	2-Chlorotoluene	ND	83	
591-78-6	2-Hexanone	ND	83	
67-64-1	2-Propanone (acetone)	ND	83	J
106-43-4	4-Chlorotoluene	ND	83	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	83	
107-13-1	Acrylonitrile	ND	83	
71-43-2	Benzene	ND	83	
108-86-1	Bromobenzene	ND	83	
74-97-5	Bromochloromethane	ND	83	
75-27-4	Bromodichloromethane	ND	83	
75-25-2	Bromoform	ND	83	
74-83-9	Bromomethane	ND	83	
75-15-0	Carbon Disulfide	ND	83	
56-23-5	Carbon tetrachloride	ND	83	
108-90-7	Chlorobenzene	ND	83	
75-00-3	Chloroethane	ND	83	
67-66-3	Chloroform	ND	83	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	92%
Dry Weight Extracted:	6.364 grams	Extract Dilution:	50
Wet Weight Extracted:	6.917 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	83	
124-48-1	Dibromochloromethane	ND	83	
74-95-3	Dibromomethane	ND	83	
75-71-8	Dichlorodifluoromethane	ND	83	
60-29-7	Ethyl Ether	ND	83	
100-41-4	Ethylbenzene	ND	83	
87-68-3	Hexachlorobutadiene	ND	83	
98-82-8	Isopropylbenzene	ND	83	
108-38-3/106-42-	M/P Xylene	ND	170	
1634-04-4	Methyl-t-Butyl Ether	ND	83	
75-09-2	Methylene Chloride	ND	83	
104-51-8	N-Butylbenzene	ND	83	
103-65-1	N-Propylbenzene	ND	83	
91-20-3	Naphthalene	ND	83	
95-47-6	Ortho Xylene	ND	83	
99-87-6	Para-Isopropyltoluene	ND	83	
135-98-8	Sec-Butylbenzene	ND	83	
100-42-5	Styrene	ND	83	
98-06-6	Tert-Butylbenzene	ND	83	
127-18-4	Tetrachloroethylene	ND	83	
109-99-9	Tetrahydrofuran	ND	83	
108-88-3	Toluene	ND	83	
156-60-5	Trans-1,2-Dichloroethylene	ND	83	
79-01-6	Trichloroethylene	ND	83	
75-69-4	Trichlorofluoromethane	ND	83	
108-05-4	Vinyl Acetate	ND	83	
75-01-4	Vinyl Chloride	ND	83	
10061-01-5	c-1,3-dichloropropene	ND	83	
156-59-2	cis-1,2-Dichloroethylene	ND	83	
10061-02-6	t-1,3-Dichloropropene	ND	83	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	7.364 grams	Extract Dilution:	50
Wet Weight Extracted:	8.182 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	73	
71-55-6	1,1,1-Trichloroethane	ND	73	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	73	
79-00-5	1,1,2-Trichloroethane	ND	73	
75-35-4	1,1-Dichloroethylene	ND	73	
563-58-6	1,1-Dichloropropene	ND	73	
75-34-3	1,1-dichloroethane	ND	73	
87-61-6	1,2,3-Trichlorobenzene	ND	73	
96-18-4	1,2,3-Trichloropropane	ND	73	
120-82-1	1,2,4-Trichlorobenzene	ND	73	
95-63-6	1,2,4-Trimethylbenzene	ND	73	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	73	
106-93-4	1,2-Dibromoethane	ND	73	
95-50-1	1,2-Dichlorobenzene	ND	73	
107-06-2	1,2-Dichloroethane	ND	73	
78-87-5	1,2-Dichloropropane	ND	73	
108-67-8	1,3,5-Trimethylbenzene	ND	73	
541-73-1	1,3-Dichlorobenzene	ND	73	
142-28-9	1,3-Dichloropropane	ND	73	
106-46-7	1,4-Dichlorobenzene	ND	73	
594-20-7	2,2-Dichloropropane	ND	73	
78-93-3	2-Butanone (MEK)	ND	73	
95-49-8	2-Chlorotoluene	ND	73	
591-78-6	2-Hexanone	ND	73	
67-64-1	2-Propanone (acetone)	ND	73	J
106-43-4	4-Chlorotoluene	ND	73	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	73	
107-13-1	Acrylonitrile	ND	73	
71-43-2	Benzene	ND	73	
108-86-1	Bromobenzene	ND	73	
74-97-5	Bromochloromethane	ND	73	
75-27-4	Bromodichloromethane	ND	73	
75-25-2	Bromoform	ND	73	
74-83-9	Bromomethane	ND	73	
75-15-0	Carbon Disulfide	ND	73	
56-23-5	Carbon tetrachloride	ND	73	
108-90-7	Chlorobenzene	ND	73	
75-00-3	Chloroethane	ND	73	
67-66-3	Chloroform	ND	73	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	7.364 grams	Extract Dilution:	50
Wet Weight Extracted:	8.182 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	73	
124-48-1	Dibromochloromethane	ND	73	
74-95-3	Dibromomethane	ND	73	
75-71-8	Dichlorodifluoromethane	ND	73	
60-29-7	Ethyl Ether	ND	73	
100-41-4	Ethylbenzene	ND	73	
87-68-3	Hexachlorobutadiene	ND	73	
98-82-8	Isopropylbenzene	ND	73	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	73	
75-09-2	Methylene Chloride	ND	73	
104-51-8	N-Butylbenzene	ND	73	
103-65-1	N-Propylbenzene	ND	73	
91-20-3	Naphthalene	ND	73	
95-47-6	Ortho Xylene	ND	73	
99-87-6	Para-Isopropyltoluene	ND	73	
135-98-8	Sec-Butylbenzene	ND	73	
100-42-5	Styrene	ND	73	
98-06-6	Tert-Butylbenzene	ND	73	
127-18-4	Tetrachloroethylene	ND	73	
109-99-9	Tetrahydrofuran	ND	73	
108-88-3	Toluene	ND	73	
156-60-5	Trans-1,2-Dichloroethylene	ND	73	
79-01-6	Trichloroethylene	ND	73	
75-69-4	Trichlorofluoromethane	ND	73	
108-05-4	Vinyl Acetate	ND	73	
75-01-4	Vinyl Chloride	ND	73	
10061-01-5	c-1,3-dichloropropene	ND	73	
156-59-2	cis-1,2-Dichloroethylene	ND	73	
10061-02-6	t-1,3-Dichloropropene	ND	73	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	100	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	96%
Dry Weight Extracted:	7.325 grams	Extract Dilution:	50
Wet Weight Extracted:	7.630 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	70	
71-55-6	1,1,1-Trichloroethane	ND	70	
79-34-5	1,1,2,2-Tetrachloroethane	ND	70	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	70	
79-00-5	1,1,2-Trichloroethane	ND	70	
75-35-4	1,1-Dichloroethylene	ND	70	
563-58-6	1,1-Dichloropropene	ND	70	
75-34-3	1,1-dichloroethane	ND	70	
87-61-6	1,2,3-Trichlorobenzene	ND	70	
96-18-4	1,2,3-Trichloropropane	ND	70	
120-82-1	1,2,4-Trichlorobenzene	ND	70	
95-63-6	1,2,4-Trimethylbenzene	ND	70	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	70	
106-93-4	1,2-Dibromoethane	ND	70	
95-50-1	1,2-Dichlorobenzene	ND	70	
107-06-2	1,2-Dichloroethane	ND	70	
78-87-5	1,2-Dichloropropane	ND	70	
108-67-8	1,3,5-Trimethylbenzene	ND	70	
541-73-1	1,3-Dichlorobenzene	ND	70	
142-28-9	1,3-Dichloropropane	ND	70	
106-46-7	1,4-Dichlorobenzene	ND	70	
594-20-7	2,2-Dichloropropane	ND	70	
78-93-3	2-Butanone (MEK)	ND	70	
95-49-8	2-Chlorotoluene	ND	70	
591-78-6	2-Hexanone	ND	70	
67-64-1	2-Propanone (acetone)	ND	70	J
106-43-4	4-Chlorotoluene	ND	70	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	70	
107-13-1	Acrylonitrile	ND	70	
71-43-2	Benzene	ND	70	
108-86-1	Bromobenzene	ND	70	
74-97-5	Bromochloromethane	ND	70	
75-27-4	Bromodichloromethane	ND	70	
75-25-2	Bromoform	ND	70	
74-83-9	Bromomethane	ND	70	
75-15-0	Carbon Disulfide	ND	70	
56-23-5	Carbon tetrachloride	ND	70	
108-90-7	Chlorobenzene	ND	70	
75-00-3	Chloroethane	ND	70	
67-66-3	Chloroform	ND	70	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	96%
Dry Weight Extracted:	7.325 grams	Extract Dilution:	50
Wet Weight Extracted:	7.630 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	70	
124-48-1	Dibromochloromethane	ND	70	
74-95-3	Dibromomethane	ND	70	
75-71-8	Dichlorodifluoromethane	ND	70	
60-29-7	Ethyl Ether	ND	70	
100-41-4	Ethylbenzene	ND	70	
87-68-3	Hexachlorobutadiene	ND	70	
98-82-8	Isopropylbenzene	ND	70	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	70	
75-09-2	Methylene Chloride	ND	70	
104-51-8	N-Butylbenzene	ND	70	
103-65-1	N-Propylbenzene	ND	70	
91-20-3	Naphthalene	ND	70	
95-47-6	Ortho Xylene	ND	70	
99-87-6	Para-Isopropyltoluene	ND	70	
135-98-8	Sec-Butylbenzene	ND	70	
100-42-5	Styrene	ND	70	
98-06-6	Tert-Butylbenzene	ND	70	
127-18-4	Tetrachloroethylene	ND	70	
109-99-9	Tetrahydrofuran	ND	70	
108-88-3	Toluene	ND	70	
156-60-5	Trans-1,2-Dichloroethylene	ND	70	
79-01-6	Trichloroethylene	ND	70	
75-69-4	Trichlorofluoromethane	ND	70	
108-05-4	Vinyl Acetate	ND	70	
75-01-4	Vinyl Chloride	ND	70	
10061-01-5	c-1,3-dichloropropene	ND	70	
156-59-2	cis-1,2-Dichloroethylene	ND	70	
10061-02-6	t-1,3-Dichloropropene	ND	70	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	94%
Dry Weight Extracted:	8.160 grams	Extract Dilution:	50
Wet Weight Extracted:	8.681 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	
71-55-6	1,1,1-Trichloroethane	ND	64	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	64	
79-00-5	1,1,2-Trichloroethane	ND	64	
75-35-4	1,1-Dichloroethylene	ND	64	
563-58-6	1,1-Dichloropropene	ND	64	
75-34-3	1,1-dichloroethane	ND	64	
87-61-6	1,2,3-Trichlorobenzene	ND	64	
96-18-4	1,2,3-Trichloropropane	ND	64	
120-82-1	1,2,4-Trichlorobenzene	ND	64	
95-63-6	1,2,4-Trimethylbenzene	ND	64	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	64	
106-93-4	1,2-Dibromoethane	ND	64	
95-50-1	1,2-Dichlorobenzene	ND	64	
107-06-2	1,2-Dichloroethane	ND	64	
78-87-5	1,2-Dichloropropane	ND	64	
108-67-8	1,3,5-Trimethylbenzene	ND	64	
541-73-1	1,3-Dichlorobenzene	ND	64	
142-28-9	1,3-Dichloropropane	ND	64	
106-46-7	1,4-Dichlorobenzene	ND	64	
594-20-7	2,2-Dichloropropane	ND	64	
78-93-3	2-Butanone (MEK)	ND	64	
95-49-8	2-Chlorotoluene	ND	64	
591-78-6	2-Hexanone	ND	64	
67-64-1	2-Propanone (acetone)	ND	64	J
106-43-4	4-Chlorotoluene	ND	64	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	64	
107-13-1	Acrylonitrile	ND	64	
71-43-2	Benzene	ND	64	
108-86-1	Bromobenzene	ND	64	
74-97-5	Bromochloromethane	ND	64	
75-27-4	Bromodichloromethane	ND	64	
75-25-2	Bromoform	ND	64	
74-83-9	Bromomethane	ND	64	
75-15-0	Carbon Disulfide	ND	64	
56-23-5	Carbon tetrachloride	ND	64	
108-90-7	Chlorobenzene	ND	64	
75-00-3	Chloroethane	ND	64	
67-66-3	Chloroform	ND	64	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	94%
Dry Weight Extracted:	8.160 grams	Extract Dilution:	50
Wet Weight Extracted:	8.681 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	64	
124-48-1	Dibromochloromethane	ND	64	
74-95-3	Dibromomethane	ND	64	
75-71-8	Dichlorodifluoromethane	ND	64	
60-29-7	Ethyl Ether	ND	64	
100-41-4	Ethylbenzene	ND	64	
87-68-3	Hexachlorobutadiene	ND	64	
98-82-8	Isopropylbenzene	ND	64	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	64	
75-09-2	Methylene Chloride	ND	64	
104-51-8	N-Butylbenzene	ND	64	
103-65-1	N-Propylbenzene	ND	64	
91-20-3	Naphthalene	ND	64	
95-47-6	Ortho Xylene	ND	64	
99-87-6	Para-Isopropyltoluene	ND	64	
135-98-8	Sec-Butylbenzene	ND	64	
100-42-5	Styrene	ND	64	
98-06-6	Tert-Butylbenzene	ND	64	
127-18-4	Tetrachloroethylene	ND	64	
109-99-9	Tetrahydrofuran	ND	64	
108-88-3	Toluene	ND	64	
156-60-5	Trans-1,2-Dichloroethylene	ND	64	
79-01-6	Trichloroethylene	ND	64	
75-69-4	Trichlorofluoromethane	ND	64	
108-05-4	Vinyl Acetate	ND	64	
75-01-4	Vinyl Chloride	ND	64	
10061-01-5	c-1,3-dichloropropene	ND	64	
156-59-2	cis-1,2-Dichloroethylene	ND	64	
10061-02-6	t-1,3-Dichloropropene	ND	64	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	4.725 grams	Extract Dilution:	50
Wet Weight Extracted:	5.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	110	
71-55-6	1,1,1-Trichloroethane	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	110	
79-00-5	1,1,2-Trichloroethane	ND	110	
75-35-4	1,1-Dichloroethylene	ND	110	
563-58-6	1,1-Dichloropropene	ND	110	
75-34-3	1,1-dichloroethane	ND	110	
87-61-6	1,2,3-Trichlorobenzene	ND	110	
96-18-4	1,2,3-Trichloropropane	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-63-6	1,2,4-Trimethylbenzene	ND	110	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	110	
106-93-4	1,2-Dibromoethane	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
107-06-2	1,2-Dichloroethane	ND	110	
78-87-5	1,2-Dichloropropane	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
142-28-9	1,3-Dichloropropane	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
594-20-7	2,2-Dichloropropane	ND	110	
78-93-3	2-Butanone (MEK)	ND	110	
95-49-8	2-Chlorotoluene	ND	110	
591-78-6	2-Hexanone	ND	110	
67-64-1	2-Propanone (acetone)	ND	110	J
106-43-4	4-Chlorotoluene	ND	110	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	110	
107-13-1	Acrylonitrile	ND	110	
71-43-2	Benzene	ND	110	
108-86-1	Bromobenzene	ND	110	
74-97-5	Bromochloromethane	ND	110	
75-27-4	Bromodichloromethane	ND	110	
75-25-2	Bromoform	ND	110	
74-83-9	Bromomethane	ND	110	
75-15-0	Carbon Disulfide	ND	110	
56-23-5	Carbon tetrachloride	ND	110	
108-90-7	Chlorobenzene	ND	110	
75-00-3	Chloroethane	ND	110	
67-66-3	Chloroform	ND	110	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	4.725 grams	Extract Dilution:	50
Wet Weight Extracted:	5.081 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	110	
124-48-1	Dibromochloromethane	ND	110	
74-95-3	Dibromomethane	ND	110	
75-71-8	Dichlorodifluoromethane	ND	110	
60-29-7	Ethyl Ether	ND	110	
100-41-4	Ethylbenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
98-82-8	Isopropylbenzene	ND	110	
108-38-3/106-42-	M/P Xylene	ND	220	
1634-04-4	Methyl-t-Butyl Ether	ND	110	
75-09-2	Methylene Chloride	ND	110	
104-51-8	N-Butylbenzene	ND	110	
103-65-1	N-Propylbenzene	ND	110	
91-20-3	Naphthalene	ND	110	
95-47-6	Ortho Xylene	ND	110	
99-87-6	Para-Isopropyltoluene	ND	110	
135-98-8	Sec-Butylbenzene	ND	110	
100-42-5	Styrene	ND	110	
98-06-6	Tert-Butylbenzene	ND	110	
127-18-4	Tetrachloroethylene	ND	110	
109-99-9	Tetrahydrofuran	ND	110	
108-88-3	Toluene	ND	110	
156-60-5	Trans-1,2-Dichloroethylene	ND	110	
79-01-6	Trichloroethylene	ND	110	
75-69-4	Trichlorofluoromethane	ND	110	
108-05-4	Vinyl Acetate	ND	110	
75-01-4	Vinyl Chloride	ND	110	
10061-01-5	c-1,3-dichloropropene	ND	110	
156-59-2	cis-1,2-Dichloroethylene	ND	110	
10061-02-6	t-1,3-Dichloropropene	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	95%
Dry Weight Extracted:	7.536 grams	Extract Dilution:	50
Wet Weight Extracted:	7.933 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	69	
71-55-6	1,1,1-Trichloroethane	ND	69	
79-34-5	1,1,2,2-Tetrachloroethane	ND	69	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	69	
79-00-5	1,1,2-Trichloroethane	ND	69	
75-35-4	1,1-Dichloroethylene	ND	69	
563-58-6	1,1-Dichloropropene	ND	69	
75-34-3	1,1-dichloroethane	ND	69	
87-61-6	1,2,3-Trichlorobenzene	ND	69	
96-18-4	1,2,3-Trichloropropane	ND	69	
120-82-1	1,2,4-Trichlorobenzene	ND	69	
95-63-6	1,2,4-Trimethylbenzene	ND	69	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	69	
106-93-4	1,2-Dibromoethane	ND	69	
95-50-1	1,2-Dichlorobenzene	ND	69	
107-06-2	1,2-Dichloroethane	ND	69	
78-87-5	1,2-Dichloropropane	ND	69	
108-67-8	1,3,5-Trimethylbenzene	ND	69	
541-73-1	1,3-Dichlorobenzene	ND	69	
142-28-9	1,3-Dichloropropane	ND	69	
106-46-7	1,4-Dichlorobenzene	ND	69	
594-20-7	2,2-Dichloropropane	ND	69	
78-93-3	2-Butanone (MEK)	ND	69	
95-49-8	2-Chlorotoluene	ND	69	
591-78-6	2-Hexanone	ND	69	
67-64-1	2-Propanone (acetone)	ND	69	J
106-43-4	4-Chlorotoluene	ND	69	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	69	
107-13-1	Acrylonitrile	ND	69	
71-43-2	Benzene	ND	69	
108-86-1	Bromobenzene	ND	69	
74-97-5	Bromochloromethane	ND	69	
75-27-4	Bromodichloromethane	ND	69	
75-25-2	Bromoform	ND	69	
74-83-9	Bromomethane	ND	69	
75-15-0	Carbon Disulfide	ND	69	
56-23-5	Carbon tetrachloride	ND	69	
108-90-7	Chlorobenzene	ND	69	
75-00-3	Chloroethane	ND	69	
67-66-3	Chloroform	ND	69	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	95%
Dry Weight Extracted:	7.536 grams	Extract Dilution:	50
Wet Weight Extracted:	7.933 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	69	
124-48-1	Dibromochloromethane	ND	69	
74-95-3	Dibromomethane	ND	69	
75-71-8	Dichlorodifluoromethane	ND	69	
60-29-7	Ethyl Ether	ND	69	
100-41-4	Ethylbenzene	ND	69	
87-68-3	Hexachlorobutadiene	ND	69	
98-82-8	Isopropylbenzene	ND	69	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	69	
75-09-2	Methylene Chloride	ND	69	
104-51-8	N-Butylbenzene	ND	69	
103-65-1	N-Propylbenzene	ND	69	
91-20-3	Naphthalene	ND	69	
95-47-6	Ortho Xylene	ND	69	
99-87-6	Para-Isopropyltoluene	ND	69	
135-98-8	Sec-Butylbenzene	ND	69	
100-42-5	Styrene	ND	69	
98-06-6	Tert-Butylbenzene	ND	69	
127-18-4	Tetrachloroethylene	ND	69	
109-99-9	Tetrahydrofuran	ND	69	
108-88-3	Toluene	ND	69	
156-60-5	Trans-1,2-Dichloroethylene	ND	69	
79-01-6	Trichloroethylene	ND	69	
75-69-4	Trichlorofluoromethane	ND	69	
108-05-4	Vinyl Acetate	ND	69	
75-01-4	Vinyl Chloride	ND	69	
10061-01-5	c-1,3-dichloropropene	ND	69	
156-59-2	cis-1,2-Dichloroethylene	ND	69	
10061-02-6	t-1,3-Dichloropropene	ND	69	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	102	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	J
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	96	85 - 118
1,4-Bromofluorobenzene	88	78 - 111

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with sample(s) AB32132 - AB32137, AB32139 - AB32142, and AB32144 - AB32145.

Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	87%
Dry Weight Extracted:	6.172 grams	Extract Dilution:	50
Wet Weight Extracted:	7.094 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	88	
71-55-6	1,1,1-Trichloroethane	ND	88	
79-34-5	1,1,2,2-Tetrachloroethane	ND	88	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	**140**	88	
79-00-5	1,1,2-Trichloroethane	ND	88	
75-35-4	1,1-Dichloroethylene	ND	88	
563-58-6	1,1-Dichloropropene	ND	88	
75-34-3	1,1-dichloroethane	ND	88	
87-61-6	1,2,3-Trichlorobenzene	ND	88	
96-18-4	1,2,3-Trichloropropane	ND	88	
120-82-1	1,2,4-Trichlorobenzene	ND	88	
95-63-6	1,2,4-Trimethylbenzene	ND	88	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	88	
106-93-4	1,2-Dibromoethane	ND	88	
95-50-1	1,2-Dichlorobenzene	ND	88	
107-06-2	1,2-Dichloroethane	ND	88	
78-87-5	1,2-Dichloropropane	ND	88	
108-67-8	1,3,5-Trimethylbenzene	ND	88	
541-73-1	1,3-Dichlorobenzene	ND	88	
142-28-9	1,3-Dichloropropane	ND	88	
106-46-7	1,4-Dichlorobenzene	ND	88	
594-20-7	2,2-Dichloropropane	ND	88	
78-93-3	2-Butanone (MEK)	ND	88	
95-49-8	2-Chlorotoluene	ND	88	
591-78-6	2-Hexanone	ND	88	
67-64-1	2-Propanone (acetone)	ND	88	J
106-43-4	4-Chlorotoluene	ND	88	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	88	
107-13-1	Acrylonitrile	ND	88	
71-43-2	Benzene	ND	88	
108-86-1	Bromobenzene	ND	88	
74-97-5	Bromochloromethane	ND	88	
75-27-4	Bromodichloromethane	ND	88	
75-25-2	Bromoform	ND	88	
74-83-9	Bromomethane	ND	88	
75-15-0	Carbon Disulfide	ND	88	
56-23-5	Carbon tetrachloride	ND	88	
108-90-7	Chlorobenzene	ND	88	
75-00-3	Chloroethane	ND	88	
67-66-3	Chloroform	ND	88	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	87%
Dry Weight Extracted:	6.172 grams	Extract Dilution:	50
Wet Weight Extracted:	7.094 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	88	
124-48-1	Dibromochloromethane	ND	88	
74-95-3	Dibromomethane	ND	88	
75-71-8	Dichlorodifluoromethane	ND	88	
60-29-7	Ethyl Ether	ND	88	
100-41-4	Ethylbenzene	ND	88	
87-68-3	Hexachlorobutadiene	ND	88	
98-82-8	Isopropylbenzene	ND	88	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	88	
75-09-2	Methylene Chloride	ND	88	
104-51-8	N-Butylbenzene	ND	88	
103-65-1	N-Propylbenzene	ND	88	
91-20-3	Naphthalene	ND	88	
95-47-6	Ortho Xylene	ND	88	
99-87-6	Para-Isopropyltoluene	ND	88	
135-98-8	Sec-Butylbenzene	ND	88	
100-42-5	Styrene	ND	88	
98-06-6	Tert-Butylbenzene	ND	88	
127-18-4	Tetrachloroethylene	**510**	88	
109-99-9	Tetrahydrofuran	ND	88	
108-88-3	Toluene	ND	88	
156-60-5	Trans-1,2-Dichloroethylene	ND	88	
79-01-6	Trichloroethylene	**160**	88	
75-69-4	Trichlorofluoromethane	ND	88	
108-05-4	Vinyl Acetate	ND	88	
75-01-4	Vinyl Chloride	ND	88	
10061-01-5	c-1,3-dichloropropene	ND	88	
156-59-2	cis-1,2-Dichloroethylene	**180**	88	
10061-02-6	t-1,3-Dichloropropene	ND	88	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	88	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0013		Lab Sample ID:	AB32134
Date of Collection:	8/22/2012		Matrix	Soil
Date of Extraction:	8/24/12		Volume Purged:	5 mL
Date of Analysis:	8/24/12		Percent Solids:	83%
Dry Weight Extracted:	8.883 grams		Extract Dilution:	50
Wet Weight Extracted:	10.702 grams		pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	67	
71-55-6	1,1,1-Trichloroethane	ND	67	
79-34-5	1,1,2,2-Tetrachloroethane	ND	67	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	67	
79-00-5	1,1,2-Trichloroethane	ND	67	
75-35-4	1,1-Dichloroethylene	ND	67	
563-58-6	1,1-Dichloropropene	ND	67	
75-34-3	1,1-dichloroethane	ND	67	
87-61-6	1,2,3-Trichlorobenzene	ND	67	
96-18-4	1,2,3-Trichloropropane	ND	67	
120-82-1	1,2,4-Trichlorobenzene	ND	67	
95-63-6	1,2,4-Trimethylbenzene	ND	67	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	67	
106-93-4	1,2-Dibromoethane	ND	67	
95-50-1	1,2-Dichlorobenzene	ND	67	
107-06-2	1,2-Dichloroethane	ND	67	
78-87-5	1,2-Dichloropropane	ND	67	
108-67-8	1,3,5-Trimethylbenzene	ND	67	
541-73-1	1,3-Dichlorobenzene	ND	67	
142-28-9	1,3-Dichloropropane	ND	67	
106-46-7	1,4-Dichlorobenzene	ND	67	
594-20-7	2,2-Dichloropropane	ND	67	
78-93-3	2-Butanone (MEK)	ND	67	
95-49-8	2-Chlorotoluene	ND	67	
591-78-6	2-Hexanone	ND	67	
67-64-1	2-Propanone (acetone)	ND	67	J
106-43-4	4-Chlorotoluene	ND	67	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	67	
107-13-1	Acrylonitrile	ND	67	
71-43-2	Benzene	ND	67	
108-86-1	Bromobenzene	ND	67	
74-97-5	Bromochloromethane	ND	67	
75-27-4	Bromodichloromethane	ND	67	
75-25-2	Bromoform	ND	67	
74-83-9	Bromomethane	ND	67	
75-15-0	Carbon Disulfide	ND	67	
56-23-5	Carbon tetrachloride	ND	67	
108-90-7	Chlorobenzene	ND	67	
75-00-3	Chloroethane	ND	67	
67-66-3	Chloroform	ND	67	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0013	Lab Sample ID:	AB32134
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	8.883 grams	Extract Dilution:	50
Wet Weight Extracted:	10.702 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	67	
124-48-1	Dibromochloromethane	ND	67	
74-95-3	Dibromomethane	ND	67	
75-71-8	Dichlorodifluoromethane	ND	67	
60-29-7	Ethyl Ether	ND	67	
100-41-4	Ethylbenzene	ND	67	
87-68-3	Hexachlorobutadiene	ND	67	
98-82-8	Isopropylbenzene	ND	67	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	67	
75-09-2	Methylene Chloride	ND	67	
104-51-8	N-Butylbenzene	ND	67	
103-65-1	N-Propylbenzene	ND	67	
91-20-3	Naphthalene	ND	67	
95-47-6	Ortho Xylene	ND	67	
99-87-6	Para-Isopropyltoluene	ND	67	
135-98-8	Sec-Butylbenzene	ND	67	
100-42-5	Styrene	ND	67	
98-06-6	Tert-Butylbenzene	ND	67	
127-18-4	Tetrachloroethylene	ND	67	
109-99-9	Tetrahydrofuran	ND	67	
108-88-3	Toluene	ND	67	
156-60-5	Trans-1,2-Dichloroethylene	ND	67	
79-01-6	Trichloroethylene	ND	67	
75-69-4	Trichlorofluoromethane	ND	67	
108-05-4	Vinyl Acetate	ND	67	
75-01-4	Vinyl Chloride	ND	67	
10061-01-5	c-1,3-dichloropropene	ND	67	
156-59-2	cis-1,2-Dichloroethylene	ND	67	
10061-02-6	t-1,3-Dichloropropene	ND	67	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	11.632 grams	Extract Dilution:	50
Wet Weight Extracted:	14.015 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	53	
71-55-6	1,1,1-Trichloroethane	ND	53	
79-34-5	1,1,2,2-Tetrachloroethane	ND	53	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	53	
79-00-5	1,1,2-Trichloroethane	ND	53	
75-35-4	1,1-Dichloroethylene	ND	53	
563-58-6	1,1-Dichloropropene	ND	53	
75-34-3	1,1-dichloroethane	ND	53	
87-61-6	1,2,3-Trichlorobenzene	ND	53	
96-18-4	1,2,3-Trichloropropane	ND	53	
120-82-1	1,2,4-Trichlorobenzene	ND	53	
95-63-6	1,2,4-Trimethylbenzene	ND	53	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	53	
106-93-4	1,2-Dibromoethane	ND	53	
95-50-1	1,2-Dichlorobenzene	ND	53	
107-06-2	1,2-Dichloroethane	ND	53	
78-87-5	1,2-Dichloropropane	ND	53	
108-67-8	1,3,5-Trimethylbenzene	ND	53	
541-73-1	1,3-Dichlorobenzene	ND	53	
142-28-9	1,3-Dichloropropane	ND	53	
106-46-7	1,4-Dichlorobenzene	ND	53	
594-20-7	2,2-Dichloropropane	ND	53	
78-93-3	2-Butanone (MEK)	ND	53	
95-49-8	2-Chlorotoluene	ND	53	
591-78-6	2-Hexanone	ND	53	
67-64-1	2-Propanone (acetone)	ND	53	J
106-43-4	4-Chlorotoluene	ND	53	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	53	
107-13-1	Acrylonitrile	ND	53	
71-43-2	Benzene	ND	53	
108-86-1	Bromobenzene	ND	53	
74-97-5	Bromochloromethane	ND	53	
75-27-4	Bromodichloromethane	ND	53	
75-25-2	Bromoform	ND	53	
74-83-9	Bromomethane	ND	53	
75-15-0	Carbon Disulfide	ND	53	
56-23-5	Carbon tetrachloride	ND	53	
108-90-7	Chlorobenzene	ND	53	
75-00-3	Chloroethane	ND	53	
67-66-3	Chloroform	ND	53	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	11.632 grams	Extract Dilution:	50
Wet Weight Extracted:	14.015 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	53	
124-48-1	Dibromochloromethane	ND	53	
74-95-3	Dibromomethane	ND	53	
75-71-8	Dichlorodifluoromethane	ND	53	
60-29-7	Ethyl Ether	ND	53	
100-41-4	Ethylbenzene	ND	53	
87-68-3	Hexachlorobutadiene	ND	53	
98-82-8	Isopropylbenzene	ND	53	
108-38-3/106-42-	M/P Xylene	ND	110	
1634-04-4	Methyl-t-Butyl Ether	ND	53	
75-09-2	Methylene Chloride	ND	53	
104-51-8	N-Butylbenzene	ND	53	
103-65-1	N-Propylbenzene	ND	53	
91-20-3	Naphthalene	ND	53	
95-47-6	Ortho Xylene	ND	53	
99-87-6	Para-Isopropyltoluene	ND	53	
135-98-8	Sec-Butylbenzene	ND	53	
100-42-5	Styrene	ND	53	
98-06-6	Tert-Butylbenzene	ND	53	
127-18-4	Tetrachloroethylene	ND	53	
109-99-9	Tetrahydrofuran	ND	53	
108-88-3	Toluene	ND	53	
156-60-5	Trans-1,2-Dichloroethylene	ND	53	
79-01-6	Trichloroethylene	ND	53	
75-69-4	Trichlorofluoromethane	ND	53	
108-05-4	Vinyl Acetate	ND	53	
75-01-4	Vinyl Chloride	ND	53	
10061-01-5	c-1,3-dichloropropene	ND	53	
156-59-2	cis-1,2-Dichloroethylene	ND	53	
10061-02-6	t-1,3-Dichloropropene	ND	53	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	4.019 grams	Extract Dilution:	50
Wet Weight Extracted:	4.901 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	140	
71-55-6	1,1,1-Trichloroethane	ND	140	
79-34-5	1,1,2,2-Tetrachloroethane	ND	140	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	140	
79-00-5	1,1,2-Trichloroethane	ND	140	
75-35-4	1,1-Dichloroethylene	ND	140	
563-58-6	1,1-Dichloropropene	ND	140	
75-34-3	1,1-dichloroethane	ND	140	
87-61-6	1,2,3-Trichlorobenzene	ND	140	
96-18-4	1,2,3-Trichloropropane	ND	140	
120-82-1	1,2,4-Trichlorobenzene	ND	140	
95-63-6	1,2,4-Trimethylbenzene	ND	140	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	140	
106-93-4	1,2-Dibromoethane	ND	140	
95-50-1	1,2-Dichlorobenzene	ND	140	
107-06-2	1,2-Dichloroethane	ND	140	
78-87-5	1,2-Dichloropropane	ND	140	
108-67-8	1,3,5-Trimethylbenzene	ND	140	
541-73-1	1,3-Dichlorobenzene	ND	140	
142-28-9	1,3-Dichloropropane	ND	140	
106-46-7	1,4-Dichlorobenzene	ND	140	
594-20-7	2,2-Dichloropropane	ND	140	
78-93-3	2-Butanone (MEK)	ND	140	
95-49-8	2-Chlorotoluene	ND	140	
591-78-6	2-Hexanone	ND	140	
67-64-1	2-Propanone (acetone)	ND	140	J
106-43-4	4-Chlorotoluene	ND	140	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	140	
107-13-1	Acrylonitrile	ND	140	
71-43-2	Benzene	ND	140	
108-86-1	Bromobenzene	ND	140	
74-97-5	Bromochloromethane	ND	140	
75-27-4	Bromodichloromethane	ND	140	
75-25-2	Bromoform	ND	140	
74-83-9	Bromomethane	ND	140	
75-15-0	Carbon Disulfide	ND	140	
56-23-5	Carbon tetrachloride	ND	140	
108-90-7	Chlorobenzene	ND	140	
75-00-3	Chloroethane	ND	140	
67-66-3	Chloroform	ND	140	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	4.019 grams	Extract Dilution:	50
Wet Weight Extracted:	4.901 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	140	
124-48-1	Dibromochloromethane	ND	140	
74-95-3	Dibromomethane	ND	140	
75-71-8	Dichlorodifluoromethane	ND	140	
60-29-7	Ethyl Ether	ND	140	
100-41-4	Ethylbenzene	ND	140	
87-68-3	Hexachlorobutadiene	ND	140	
98-82-8	Isopropylbenzene	ND	140	
108-38-3/106-42-	M/P Xylene	ND	280	
1634-04-4	Methyl-t-Butyl Ether	ND	140	
75-09-2	Methylene Chloride	ND	140	
104-51-8	N-Butylbenzene	ND	140	
103-65-1	N-Propylbenzene	ND	140	
91-20-3	Naphthalene	ND	140	
95-47-6	Ortho Xylene	ND	140	
99-87-6	Para-Isopropyltoluene	ND	140	
135-98-8	Sec-Butylbenzene	ND	140	
100-42-5	Styrene	ND	140	
98-06-6	Tert-Butylbenzene	ND	140	
127-18-4	Tetrachloroethylene	ND	140	
109-99-9	Tetrahydrofuran	ND	140	
108-88-3	Toluene	ND	140	
156-60-5	Trans-1,2-Dichloroethylene	ND	140	
79-01-6	Trichloroethylene	ND	140	
75-69-4	Trichlorofluoromethane	ND	140	
108-05-4	Vinyl Acetate	ND	140	
75-01-4	Vinyl Chloride	ND	140	
10061-01-5	c-1,3-dichloropropene	ND	140	
156-59-2	cis-1,2-Dichloroethylene	ND	140	
10061-02-6	t-1,3-Dichloropropene	ND	140	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	87%
Dry Weight Extracted:	7.001 grams	Extract Dilution:	50
Wet Weight Extracted:	8.047 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	79	
71-55-6	1,1,1-Trichloroethane	ND	79	
79-34-5	1,1,2,2-Tetrachloroethane	ND	79	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	79	
79-00-5	1,1,2-Trichloroethane	ND	79	
75-35-4	1,1-Dichloroethylene	ND	79	
563-58-6	1,1-Dichloropropene	ND	79	
75-34-3	1,1-dichloroethane	ND	79	
87-61-6	1,2,3-Trichlorobenzene	ND	79	
96-18-4	1,2,3-Trichloropropane	ND	79	
120-82-1	1,2,4-Trichlorobenzene	ND	79	
95-63-6	1,2,4-Trimethylbenzene	ND	79	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	79	
106-93-4	1,2-Dibromoethane	ND	79	
95-50-1	1,2-Dichlorobenzene	ND	79	
107-06-2	1,2-Dichloroethane	ND	79	
78-87-5	1,2-Dichloropropane	ND	79	
108-67-8	1,3,5-Trimethylbenzene	ND	79	
541-73-1	1,3-Dichlorobenzene	ND	79	
142-28-9	1,3-Dichloropropane	ND	79	
106-46-7	1,4-Dichlorobenzene	ND	79	
594-20-7	2,2-Dichloropropane	ND	79	
78-93-3	2-Butanone (MEK)	ND	79	
95-49-8	2-Chlorotoluene	ND	79	
591-78-6	2-Hexanone	ND	79	
67-64-1	2-Propanone (acetone)	ND	79	J
106-43-4	4-Chlorotoluene	ND	79	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	79	
107-13-1	Acrylonitrile	ND	79	
71-43-2	Benzene	ND	79	
108-86-1	Bromobenzene	ND	79	
74-97-5	Bromochloromethane	ND	79	
75-27-4	Bromodichloromethane	ND	79	
75-25-2	Bromoform	ND	79	
74-83-9	Bromomethane	ND	79	
75-15-0	Carbon Disulfide	ND	79	
56-23-5	Carbon tetrachloride	ND	79	
108-90-7	Chlorobenzene	ND	79	
75-00-3	Chloroethane	ND	79	
67-66-3	Chloroform	ND	79	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	87%
Dry Weight Extracted:	7.001 grams	Extract Dilution:	50
Wet Weight Extracted:	8.047 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	79	
124-48-1	Dibromochloromethane	ND	79	
74-95-3	Dibromomethane	ND	79	
75-71-8	Dichlorodifluoromethane	ND	79	
60-29-7	Ethyl Ether	ND	79	
100-41-4	Ethylbenzene	ND	79	
87-68-3	Hexachlorobutadiene	ND	79	
98-82-8	Isopropylbenzene	ND	79	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	79	
75-09-2	Methylene Chloride	ND	79	
104-51-8	N-Butylbenzene	ND	79	
103-65-1	N-Propylbenzene	ND	79	
91-20-3	Naphthalene	ND	79	
95-47-6	Ortho Xylene	ND	79	
99-87-6	Para-Isopropyltoluene	ND	79	
135-98-8	Sec-Butylbenzene	ND	79	
100-42-5	Styrene	ND	79	
98-06-6	Tert-Butylbenzene	ND	79	
127-18-4	Tetrachloroethylene	ND	79	
109-99-9	Tetrahydrofuran	ND	79	
108-88-3	Toluene	ND	79	
156-60-5	Trans-1,2-Dichloroethylene	ND	79	
79-01-6	Trichloroethylene	ND	79	
75-69-4	Trichlorofluoromethane	ND	79	
108-05-4	Vinyl Acetate	ND	79	
75-01-4	Vinyl Chloride	ND	79	
10061-01-5	c-1,3-dichloropropene	ND	79	
156-59-2	cis-1,2-Dichloroethylene	ND	79	
10061-02-6	t-1,3-Dichloropropene	ND	79	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	6.937 grams	Extract Dilution:	50
Wet Weight Extracted:	7.459 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	76	
71-55-6	1,1,1-Trichloroethane	ND	76	
79-34-5	1,1,2,2-Tetrachloroethane	ND	76	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	76	
79-00-5	1,1,2-Trichloroethane	ND	76	
75-35-4	1,1-Dichloroethylene	ND	76	
563-58-6	1,1-Dichloropropene	ND	76	
75-34-3	1,1-dichloroethane	ND	76	
87-61-6	1,2,3-Trichlorobenzene	ND	76	
96-18-4	1,2,3-Trichloropropane	ND	76	
120-82-1	1,2,4-Trichlorobenzene	ND	76	
95-63-6	1,2,4-Trimethylbenzene	ND	76	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	76	
106-93-4	1,2-Dibromoethane	ND	76	
95-50-1	1,2-Dichlorobenzene	ND	76	
107-06-2	1,2-Dichloroethane	ND	76	
78-87-5	1,2-Dichloropropane	ND	76	
108-67-8	1,3,5-Trimethylbenzene	ND	76	
541-73-1	1,3-Dichlorobenzene	ND	76	
142-28-9	1,3-Dichloropropane	ND	76	
106-46-7	1,4-Dichlorobenzene	ND	76	
594-20-7	2,2-Dichloropropane	ND	76	
78-93-3	2-Butanone (MEK)	ND	76	
95-49-8	2-Chlorotoluene	ND	76	
591-78-6	2-Hexanone	ND	76	
67-64-1	2-Propanone (acetone)	ND	76	J
106-43-4	4-Chlorotoluene	ND	76	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	76	
107-13-1	Acrylonitrile	ND	76	
71-43-2	Benzene	ND	76	
108-86-1	Bromobenzene	ND	76	
74-97-5	Bromochloromethane	ND	76	
75-27-4	Bromodichloromethane	ND	76	
75-25-2	Bromoform	ND	76	
74-83-9	Bromomethane	ND	76	
75-15-0	Carbon Disulfide	ND	76	
56-23-5	Carbon tetrachloride	ND	76	
108-90-7	Chlorobenzene	ND	76	
75-00-3	Chloroethane	ND	76	
67-66-3	Chloroform	ND	76	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	6.937 grams	Extract Dilution:	50
Wet Weight Extracted:	7.459 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	76	
124-48-1	Dibromochloromethane	ND	76	
74-95-3	Dibromomethane	ND	76	
75-71-8	Dichlorodifluoromethane	ND	76	
60-29-7	Ethyl Ether	ND	76	
100-41-4	Ethylbenzene	ND	76	
87-68-3	Hexachlorobutadiene	ND	76	
98-82-8	Isopropylbenzene	ND	76	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	76	
75-09-2	Methylene Chloride	ND	76	
104-51-8	N-Butylbenzene	ND	76	
103-65-1	N-Propylbenzene	ND	76	
91-20-3	Naphthalene	ND	76	
95-47-6	Ortho Xylene	ND	76	
99-87-6	Para-Isopropyltoluene	ND	76	
135-98-8	Sec-Butylbenzene	ND	76	
100-42-5	Styrene	ND	76	
98-06-6	Tert-Butylbenzene	ND	76	
127-18-4	Tetrachloroethylene	ND	76	
109-99-9	Tetrahydrofuran	ND	76	
108-88-3	Toluene	ND	76	
156-60-5	Trans-1,2-Dichloroethylene	ND	76	
79-01-6	Trichloroethylene	ND	76	
75-69-4	Trichlorofluoromethane	ND	76	
108-05-4	Vinyl Acetate	ND	76	
75-01-4	Vinyl Chloride	ND	76	
10061-01-5	c-1,3-dichloropropene	ND	76	
156-59-2	cis-1,2-Dichloroethylene	ND	76	
10061-02-6	t-1,3-Dichloropropene	ND	76	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	8.221 grams	Extract Dilution:	50
Wet Weight Extracted:	9.134 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	66	
71-55-6	1,1,1-Trichloroethane	ND	66	
79-34-5	1,1,2,2-Tetrachloroethane	ND	66	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	66	
79-00-5	1,1,2-Trichloroethane	ND	66	
75-35-4	1,1-Dichloroethylene	ND	66	
563-58-6	1,1-Dichloropropene	ND	66	
75-34-3	1,1-dichloroethane	ND	66	
87-61-6	1,2,3-Trichlorobenzene	ND	66	
96-18-4	1,2,3-Trichloropropane	ND	66	
120-82-1	1,2,4-Trichlorobenzene	ND	66	
95-63-6	1,2,4-Trimethylbenzene	ND	66	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	66	
106-93-4	1,2-Dibromoethane	ND	66	
95-50-1	1,2-Dichlorobenzene	ND	66	
107-06-2	1,2-Dichloroethane	ND	66	
78-87-5	1,2-Dichloropropane	ND	66	
108-67-8	1,3,5-Trimethylbenzene	ND	66	
541-73-1	1,3-Dichlorobenzene	ND	66	
142-28-9	1,3-Dichloropropane	ND	66	
106-46-7	1,4-Dichlorobenzene	ND	66	
594-20-7	2,2-Dichloropropane	ND	66	
78-93-3	2-Butanone (MEK)	ND	66	
95-49-8	2-Chlorotoluene	ND	66	
591-78-6	2-Hexanone	ND	66	
67-64-1	2-Propanone (acetone)	ND	66	J
106-43-4	4-Chlorotoluene	ND	66	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	66	
107-13-1	Acrylonitrile	ND	66	
71-43-2	Benzene	ND	66	
108-86-1	Bromobenzene	ND	66	
74-97-5	Bromochloromethane	ND	66	
75-27-4	Bromodichloromethane	ND	66	
75-25-2	Bromoform	ND	66	
74-83-9	Bromomethane	ND	66	
75-15-0	Carbon Disulfide	ND	66	
56-23-5	Carbon tetrachloride	ND	66	
108-90-7	Chlorobenzene	ND	66	
75-00-3	Chloroethane	ND	66	
67-66-3	Chloroform	ND	66	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	8.221 grams	Extract Dilution:	50
Wet Weight Extracted:	9.134 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	66	
124-48-1	Dibromochloromethane	ND	66	
74-95-3	Dibromomethane	ND	66	
75-71-8	Dichlorodifluoromethane	ND	66	
60-29-7	Ethyl Ether	ND	66	
100-41-4	Ethylbenzene	ND	66	
87-68-3	Hexachlorobutadiene	ND	66	
98-82-8	Isopropylbenzene	ND	66	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	66	
75-09-2	Methylene Chloride	ND	66	
104-51-8	N-Butylbenzene	ND	66	
103-65-1	N-Propylbenzene	ND	66	
91-20-3	Naphthalene	ND	66	
95-47-6	Ortho Xylene	ND	66	
99-87-6	Para-Isopropyltoluene	ND	66	
135-98-8	Sec-Butylbenzene	ND	66	
100-42-5	Styrene	ND	66	
98-06-6	Tert-Butylbenzene	ND	66	
127-18-4	Tetrachloroethylene	ND	66	
109-99-9	Tetrahydrofuran	ND	66	
108-88-3	Toluene	ND	66	
156-60-5	Trans-1,2-Dichloroethylene	ND	66	
79-01-6	Trichloroethylene	ND	66	
75-69-4	Trichlorofluoromethane	ND	66	
108-05-4	Vinyl Acetate	ND	66	
75-01-4	Vinyl Chloride	ND	66	
10061-01-5	c-1,3-dichloropropene	ND	66	
156-59-2	cis-1,2-Dichloroethylene	ND	66	
10061-02-6	t-1,3-Dichloropropene	ND	66	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	94	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	8.438 grams	Extract Dilution:	50
Wet Weight Extracted:	9.272 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	
71-55-6	1,1,1-Trichloroethane	ND	64	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	64	
79-00-5	1,1,2-Trichloroethane	ND	64	
75-35-4	1,1-Dichloroethylene	ND	64	
563-58-6	1,1-Dichloropropene	ND	64	
75-34-3	1,1-dichloroethane	ND	64	
87-61-6	1,2,3-Trichlorobenzene	ND	64	
96-18-4	1,2,3-Trichloropropane	ND	64	
120-82-1	1,2,4-Trichlorobenzene	ND	64	
95-63-6	1,2,4-Trimethylbenzene	ND	64	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	64	
106-93-4	1,2-Dibromoethane	ND	64	
95-50-1	1,2-Dichlorobenzene	ND	64	
107-06-2	1,2-Dichloroethane	ND	64	
78-87-5	1,2-Dichloropropane	ND	64	
108-67-8	1,3,5-Trimethylbenzene	ND	64	
541-73-1	1,3-Dichlorobenzene	ND	64	
142-28-9	1,3-Dichloropropane	ND	64	
106-46-7	1,4-Dichlorobenzene	ND	64	
594-20-7	2,2-Dichloropropane	ND	64	
78-93-3	2-Butanone (MEK)	ND	64	
95-49-8	2-Chlorotoluene	ND	64	
591-78-6	2-Hexanone	ND	64	
67-64-1	2-Propanone (acetone)	ND	64	J
106-43-4	4-Chlorotoluene	ND	64	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	64	
107-13-1	Acrylonitrile	ND	64	
71-43-2	Benzene	ND	64	
108-86-1	Bromobenzene	ND	64	
74-97-5	Bromochloromethane	ND	64	
75-27-4	Bromodichloromethane	ND	64	
75-25-2	Bromoform	ND	64	
74-83-9	Bromomethane	ND	64	
75-15-0	Carbon Disulfide	ND	64	
56-23-5	Carbon tetrachloride	ND	64	
108-90-7	Chlorobenzene	ND	64	
75-00-3	Chloroethane	ND	64	
67-66-3	Chloroform	ND	64	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	8.438 grams	Extract Dilution:	50
Wet Weight Extracted:	9.272 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	64	
124-48-1	Dibromochloromethane	ND	64	
74-95-3	Dibromomethane	ND	64	
75-71-8	Dichlorodifluoromethane	ND	64	
60-29-7	Ethyl Ether	ND	64	
100-41-4	Ethylbenzene	ND	64	
87-68-3	Hexachlorobutadiene	ND	64	
98-82-8	Isopropylbenzene	ND	64	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	64	
75-09-2	Methylene Chloride	ND	64	
104-51-8	N-Butylbenzene	ND	64	
103-65-1	N-Propylbenzene	ND	64	
91-20-3	Naphthalene	ND	64	
95-47-6	Ortho Xylene	ND	64	
99-87-6	Para-Isopropyltoluene	ND	64	
135-98-8	Sec-Butylbenzene	ND	64	
100-42-5	Styrene	ND	64	
98-06-6	Tert-Butylbenzene	ND	64	
127-18-4	Tetrachloroethylene	ND	64	
109-99-9	Tetrahydrofuran	ND	64	
108-88-3	Toluene	ND	64	
156-60-5	Trans-1,2-Dichloroethylene	ND	64	
79-01-6	Trichloroethylene	ND	64	
75-69-4	Trichlorofluoromethane	ND	64	
108-05-4	Vinyl Acetate	ND	64	
75-01-4	Vinyl Chloride	ND	64	
10061-01-5	c-1,3-dichloropropene	ND	64	
156-59-2	cis-1,2-Dichloroethylene	ND	64	
10061-02-6	t-1,3-Dichloropropene	ND	64	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	5.822 grams	Extract Dilution:	50
Wet Weight Extracted:	7.369 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	99	
71-55-6	1,1,1-Trichloroethane	ND	99	
79-34-5	1,1,2,2-Tetrachloroethane	ND	99	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	99	
79-00-5	1,1,2-Trichloroethane	ND	99	
75-35-4	1,1-Dichloroethylene	ND	99	
563-58-6	1,1-Dichloropropene	ND	99	
75-34-3	1,1-dichloroethane	ND	99	
87-61-6	1,2,3-Trichlorobenzene	ND	99	
96-18-4	1,2,3-Trichloropropane	ND	99	
120-82-1	1,2,4-Trichlorobenzene	ND	99	
95-63-6	1,2,4-Trimethylbenzene	ND	99	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	99	
106-93-4	1,2-Dibromoethane	ND	99	
95-50-1	1,2-Dichlorobenzene	ND	99	
107-06-2	1,2-Dichloroethane	ND	99	
78-87-5	1,2-Dichloropropane	ND	99	
108-67-8	1,3,5-Trimethylbenzene	ND	99	
541-73-1	1,3-Dichlorobenzene	ND	99	
142-28-9	1,3-Dichloropropane	ND	99	
106-46-7	1,4-Dichlorobenzene	ND	99	
594-20-7	2,2-Dichloropropane	ND	99	
78-93-3	2-Butanone (MEK)	ND	99	
95-49-8	2-Chlorotoluene	ND	99	
591-78-6	2-Hexanone	ND	99	
67-64-1	2-Propanone (acetone)	ND	99	J
106-43-4	4-Chlorotoluene	ND	99	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	99	
107-13-1	Acrylonitrile	ND	99	
71-43-2	Benzene	ND	99	
108-86-1	Bromobenzene	ND	99	
74-97-5	Bromochloromethane	ND	99	
75-27-4	Bromodichloromethane	ND	99	
75-25-2	Bromoform	ND	99	
74-83-9	Bromomethane	ND	99	
75-15-0	Carbon Disulfide	ND	99	
56-23-5	Carbon tetrachloride	ND	99	
108-90-7	Chlorobenzene	ND	99	
75-00-3	Chloroethane	ND	99	
67-66-3	Chloroform	ND	99	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	5.822 grams	Extract Dilution:	50
Wet Weight Extracted:	7.369 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	99	
124-48-1	Dibromochloromethane	ND	99	
74-95-3	Dibromomethane	ND	99	
75-71-8	Dichlorodifluoromethane	ND	99	
60-29-7	Ethyl Ether	ND	99	
100-41-4	Ethylbenzene	ND	99	
87-68-3	Hexachlorobutadiene	ND	99	
98-82-8	Isopropylbenzene	ND	99	
108-38-3/106-42-	M/P Xylene	ND	200	
1634-04-4	Methyl-t-Butyl Ether	ND	99	
75-09-2	Methylene Chloride	ND	99	
104-51-8	N-Butylbenzene	ND	99	
103-65-1	N-Propylbenzene	ND	99	
91-20-3	Naphthalene	ND	99	
95-47-6	Ortho Xylene	ND	99	
99-87-6	Para-Isopropyltoluene	ND	99	
135-98-8	Sec-Butylbenzene	ND	99	
100-42-5	Styrene	ND	99	
98-06-6	Tert-Butylbenzene	ND	99	
127-18-4	Tetrachloroethylene	ND	99	
109-99-9	Tetrahydrofuran	ND	99	
108-88-3	Toluene	ND	99	
156-60-5	Trans-1,2-Dichloroethylene	ND	99	
79-01-6	Trichloroethylene	ND	99	
75-69-4	Trichlorofluoromethane	ND	99	
108-05-4	Vinyl Acetate	ND	99	
75-01-4	Vinyl Chloride	ND	99	
10061-01-5	c-1,3-dichloropropene	ND	99	
156-59-2	cis-1,2-Dichloroethylene	ND	99	
10061-02-6	t-1,3-Dichloropropene	ND	99	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	85	78 - 111
1,2-Dichloroethane-D4	106	74 - 136
Toluene-D8	96	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0023	Lab Sample ID:	AB32144
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	86%
Dry Weight Extracted:	7.219 grams	Extract Dilution:	50
Wet Weight Extracted:	8.394 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	77	
71-55-6	1,1,1-Trichloroethane	ND	77	
79-34-5	1,1,2,2-Tetrachloroethane	ND	77	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	77	
79-00-5	1,1,2-Trichloroethane	ND	77	
75-35-4	1,1-Dichloroethylene	ND	77	
563-58-6	1,1-Dichloropropene	ND	77	
75-34-3	1,1-dichloroethane	ND	77	
87-61-6	1,2,3-Trichlorobenzene	ND	77	
96-18-4	1,2,3-Trichloropropane	ND	77	
120-82-1	1,2,4-Trichlorobenzene	ND	77	
95-63-6	1,2,4-Trimethylbenzene	ND	77	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	77	
106-93-4	1,2-Dibromoethane	ND	77	
95-50-1	1,2-Dichlorobenzene	ND	77	
107-06-2	1,2-Dichloroethane	ND	77	
78-87-5	1,2-Dichloropropane	ND	77	
108-67-8	1,3,5-Trimethylbenzene	ND	77	
541-73-1	1,3-Dichlorobenzene	ND	77	
142-28-9	1,3-Dichloropropane	ND	77	
106-46-7	1,4-Dichlorobenzene	ND	77	
594-20-7	2,2-Dichloropropane	ND	77	
78-93-3	2-Butanone (MEK)	ND	77	
95-49-8	2-Chlorotoluene	ND	77	
591-78-6	2-Hexanone	ND	77	
67-64-1	2-Propanone (acetone)	ND	77	J
106-43-4	4-Chlorotoluene	ND	77	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	77	
107-13-1	Acrylonitrile	ND	77	
71-43-2	Benzene	ND	77	
108-86-1	Bromobenzene	ND	77	
74-97-5	Bromochloromethane	ND	77	
75-27-4	Bromodichloromethane	ND	77	
75-25-2	Bromoform	ND	77	
74-83-9	Bromomethane	ND	77	
75-15-0	Carbon Disulfide	ND	77	
56-23-5	Carbon tetrachloride	ND	77	
108-90-7	Chlorobenzene	ND	77	
75-00-3	Chloroethane	ND	77	
67-66-3	Chloroform	ND	77	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0023	Lab Sample ID:	AB32144
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	86%
Dry Weight Extracted:	7.219 grams	Extract Dilution:	50
Wet Weight Extracted:	8.394 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	77	
124-48-1	Dibromochloromethane	ND	77	
74-95-3	Dibromomethane	ND	77	
75-71-8	Dichlorodifluoromethane	ND	77	
60-29-7	Ethyl Ether	ND	77	
100-41-4	Ethylbenzene	ND	77	
87-68-3	Hexachlorobutadiene	ND	77	
98-82-8	Isopropylbenzene	ND	77	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	77	
75-09-2	Methylene Chloride	ND	77	
104-51-8	N-Butylbenzene	ND	77	
103-65-1	N-Propylbenzene	ND	77	
91-20-3	Naphthalene	ND	77	
95-47-6	Ortho Xylene	ND	77	
99-87-6	Para-Isopropyltoluene	ND	77	
135-98-8	Sec-Butylbenzene	ND	77	
100-42-5	Styrene	ND	77	
98-06-6	Tert-Butylbenzene	ND	77	
127-18-4	Tetrachloroethylene	ND	77	
109-99-9	Tetrahydrofuran	ND	77	
108-88-3	Toluene	ND	77	
156-60-5	Trans-1,2-Dichloroethylene	ND	77	
79-01-6	Trichloroethylene	ND	77	
75-69-4	Trichlorofluoromethane	ND	77	
108-05-4	Vinyl Acetate	ND	77	
75-01-4	Vinyl Chloride	ND	77	
10061-01-5	c-1,3-dichloropropene	ND	77	
156-59-2	cis-1,2-Dichloroethylene	ND	77	
10061-02-6	t-1,3-Dichloropropene	ND	77	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	87	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0024	Lab Sample ID:	AB32145
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	82%
Dry Weight Extracted:	8.377 grams	Extract Dilution:	50
Wet Weight Extracted:	10.216 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	71	
71-55-6	1,1,1-Trichloroethane	ND	71	
79-34-5	1,1,2,2-Tetrachloroethane	ND	71	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	71	
79-00-5	1,1,2-Trichloroethane	ND	71	
75-35-4	1,1-Dichloroethylene	ND	71	
563-58-6	1,1-Dichloropropene	ND	71	
75-34-3	1,1-dichloroethane	ND	71	
87-61-6	1,2,3-Trichlorobenzene	ND	71	
96-18-4	1,2,3-Trichloropropane	ND	71	
120-82-1	1,2,4-Trichlorobenzene	ND	71	
95-63-6	1,2,4-Trimethylbenzene	ND	71	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	71	
106-93-4	1,2-Dibromoethane	ND	71	
95-50-1	1,2-Dichlorobenzene	ND	71	
107-06-2	1,2-Dichloroethane	ND	71	
78-87-5	1,2-Dichloropropane	ND	71	
108-67-8	1,3,5-Trimethylbenzene	ND	71	
541-73-1	1,3-Dichlorobenzene	ND	71	
142-28-9	1,3-Dichloropropane	ND	71	
106-46-7	1,4-Dichlorobenzene	ND	71	
594-20-7	2,2-Dichloropropane	ND	71	
78-93-3	2-Butanone (MEK)	ND	71	
95-49-8	2-Chlorotoluene	ND	71	
591-78-6	2-Hexanone	ND	71	
67-64-1	2-Propanone (acetone)	ND	71	J
106-43-4	4-Chlorotoluene	ND	71	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	71	
107-13-1	Acrylonitrile	ND	71	
71-43-2	Benzene	ND	71	
108-86-1	Bromobenzene	ND	71	
74-97-5	Bromochloromethane	ND	71	
75-27-4	Bromodichloromethane	ND	71	
75-25-2	Bromoform	ND	71	
74-83-9	Bromomethane	ND	71	
75-15-0	Carbon Disulfide	ND	71	
56-23-5	Carbon tetrachloride	ND	71	
108-90-7	Chlorobenzene	ND	71	
75-00-3	Chloroethane	ND	71	
67-66-3	Chloroform	ND	71	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0024	Lab Sample ID:	AB32145
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	82%
Dry Weight Extracted:	8.377 grams	Extract Dilution:	50
Wet Weight Extracted:	10.216 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	71	
124-48-1	Dibromochloromethane	ND	71	
74-95-3	Dibromomethane	ND	71	
75-71-8	Dichlorodifluoromethane	ND	71	
60-29-7	Ethyl Ether	ND	71	
100-41-4	Ethylbenzene	ND	71	
87-68-3	Hexachlorobutadiene	ND	71	
98-82-8	Isopropylbenzene	ND	71	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	71	
75-09-2	Methylene Chloride	ND	71	
104-51-8	N-Butylbenzene	ND	71	
103-65-1	N-Propylbenzene	ND	71	
91-20-3	Naphthalene	ND	71	
95-47-6	Ortho Xylene	ND	71	
99-87-6	Para-Isopropyltoluene	ND	71	
135-98-8	Sec-Butylbenzene	ND	71	
100-42-5	Styrene	ND	71	
98-06-6	Tert-Butylbenzene	ND	71	
127-18-4	Tetrachloroethylene	ND	71	
109-99-9	Tetrahydrofuran	ND	71	
108-88-3	Toluene	ND	71	
156-60-5	Trans-1,2-Dichloroethylene	ND	71	
79-01-6	Trichloroethylene	ND	71	
75-69-4	Trichlorofluoromethane	ND	71	
108-05-4	Vinyl Acetate	ND	71	
75-01-4	Vinyl Chloride	ND	71	
10061-01-5	c-1,3-dichloropropene	ND	71	
156-59-2	cis-1,2-Dichloroethylene	ND	71	
10061-02-6	t-1,3-Dichloropropene	ND	71	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	86	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	95	85 - 118

Comments: Acetone did not meet the criteria for initial calibration and is qualified with a J.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32124

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,820	ND	1800	99	74 - 124
1,1,1-Trichloroethane	1,820	ND	1800	99	76 - 132
1,1,2,2-Tetrachloroethane	1,820	ND	1900	100	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,820	ND	2000	110	68 - 144
1,1,2-Trichloroethane	1,820	ND	1900	100	75 - 126
1,1-Dichloroethylene	1,820	ND	1700	93	65 - 140
1,1-Dichloropropene	1,820	ND	1800	99	81 - 125
1,1-dichloroethane	1,820	ND	1800	99	77 - 130
1,2,3-Trichlorobenzene	1,820	ND	1800	99	64 - 125
1,2,3-Trichloropropane	1,820	ND	1800	99	68 - 122
1,2,4-Trichlorobenzene	1,820	ND	1800	99	72 - 120
1,2,4-Trimethylbenzene	1,820	ND	1800	99	81 - 125
1,2-Dibromo-3-Chloropropane	1,820	ND	1800	99	54 - 125
1,2-Dibromoethane	1,820	ND	1800	99	73 - 124
1,2-Dichlorobenzene	1,820	ND	1700	93	81 - 116
1,2-Dichloroethane	1,820	ND	1800	99	74 - 130
1,2-Dichloropropane	1,820	ND	1700	93	78 - 120
1,3,5-Trimethylbenzene	1,820	ND	1800	99	81 - 125
1,3-Dichlorobenzene	1,820	ND	1700	93	82 - 117
1,3-Dichloropropane	1,820	ND	1800	99	76 - 123
1,4-Dichlorobenzene	1,820	ND	1700	93	80 - 116
2,2-Dichloropropane	1,820	ND	1900	100	57 - 147
2-Butanone (MEK)	1,820	ND	2200	120	41 - 151
2-Chlorotoluene	1,820	ND	1700	93	82 - 119
2-Hexanone	1,820	ND	2300	130	51 - 148
2-Propanone (acetone)	1,820	ND	3600	200	25 - 161
4-Chlorotoluene	1,820	ND	1700	93	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,820	ND	2000	110	62 - 130
Acrylonitrile	1,820	ND	2000	110	67 - 130
Benzene	1,820	ND	1800	99	82 - 124
Bromobenzene	1,820	ND	1700	93	79 - 119
Bromochloromethane	1,820	ND	1800	99	79 - 125
Bromodichloromethane	1,820	ND	1700	93	71 - 126
Bromoform	1,820	ND	1500	82	56 - 119
Bromomethane	1,820	ND	1700	93	37 - 161
Carbon Disulfide	1,820	ND	1800	99	63 - 134
Carbon tetrachloride	1,820	ND	1800	99	68 - 136
Chlorobenzene	1,820	ND	1800	99	82 - 126
Chloroethane	1,820	ND	1200	66	57 - 148
Chloroform	1,820	ND	1800	99	78 - 130
Chloromethane	1,820	ND	1600	88	56 - 147
Dibromochloromethane	1,820	ND	1600	88	62 - 131
Dibromomethane	1,820	ND	1800	99	75 - 122
Dichlorodifluoromethane	1,820	ND	1500	82	59 - 131
Ethyl Ether	1,820	ND	1900	100	65 - 138
Ethylbenzene	1,820	ND	1800	99	82 - 122
Hexachlorobutadiene	1,820	ND	1800	99	70 - 130
Isopropylbenzene	1,820	ND	1800	99	82 - 125

M/P Xylene	3,640	ND	3700	100	85 - 120
Methyl-t-Butyl Ether	1,820	ND	1900	100	74 - 125
Methylene Chloride	1,820	ND	1800	99	67 - 139
N-Butylbenzene	1,820	ND	1800	99	80 - 129
N-Propylbenzene	1,820	ND	1800	99	81 - 122
Naphthalene	1,820	ND	1900	100	59 - 129
Ortho Xylene	1,820	ND	1900	100	84 - 122
Para-Isopropyltoluene	1,820	ND	1700	93	79 - 129
Sec-Butylbenzene	1,820	ND	1800	99	81 - 126
Styrene	1,820	ND	1900	100	82 - 125
Tert-Butylbenzene	1,820	ND	1800	99	81 - 126
Tetrachloroethylene	1,820	ND	1800	99	74 - 133
Tetrahydrofuran	1,820	ND	2000	110	60 - 132
Toluene	1,820	ND	1800	99	82 - 124
Trans-1,2-Dichloroethylene	1,820	ND	1800	99	79 - 127
Trichloroethylene	1,820	ND	1700	93	76 - 124
Trichlorofluoromethane	1,820	ND	2000	110	65 - 144
Vinyl Acetate	1,820	ND	1800	99	14 - 152
Vinyl Chloride	1,820	ND	1700	93	34 - 142
c-1,3-dichloropropene	1,820	ND	1600	88	68 - 133
cis-1,2-Dichloroethylene	1,820	ND	1900	100	79 - 131
t-1,3-Dichloropropene	1,820	ND	1700	93	65 - 126

Comments:

Sample ID: AB32124

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,820	1700	93	6	40
1,1,1-Trichloroethane	1,820	1700	93	6	40
1,1,2,2-Tetrachloroethane	1,820	1900	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,820	1800	99	11	40
1,1,2-Trichloroethane	1,820	1900	100	0	40
1,1-Dichloroethylene	1,820	1600	88	6	52
1,1-Dichloropropene	1,820	1700	93	6	40
1,1-dichloroethane	1,820	1700	93	6	40
1,2,3-Trichlorobenzene	1,820	1800	99	0	40
1,2,3-Trichloropropane	1,820	1800	99	0	40
1,2,4-Trichlorobenzene	1,820	1700	93	6	40
1,2,4-Trimethylbenzene	1,820	1700	93	6	40
1,2-Dibromo-3-Chloropropane	1,820	1800	99	0	40
1,2-Dibromoethane	1,820	1800	99	0	40
1,2-Dichlorobenzene	1,820	1700	93	0	40
1,2-Dichloroethane	1,820	1800	99	0	40
1,2-Dichloropropane	1,820	1700	93	0	40
1,3,5-Trimethylbenzene	1,820	1700	93	6	40
1,3-Dichlorobenzene	1,820	1700	93	0	40
1,3-Dichloropropane	1,820	1800	99	0	40
1,4-Dichlorobenzene	1,820	1600	88	6	40
2,2-Dichloropropane	1,820	1800	99	1	40
2-Butanone (MEK)	1,820	2100	120	0	40
2-Chlorotoluene	1,820	1700	93	0	40
2-Hexanone	1,820	2200	120	8	40
2-Propanone (acetone)	1,820	3200	180	11	40
4-Chlorotoluene	1,820	1700	93	0	40
4-Methyl-2-Pentanone(MIBK)	1,820	2000	110	0	40
Acrylonitrile	1,820	1900	100	10	40
Benzene	1,820	1700	93	6	24
Bromobenzene	1,820	1700	93	0	40
Bromochloromethane	1,820	1800	99	0	40
Bromodichloromethane	1,820	1700	93	0	40
Bromoform	1,820	1500	82	0	40
Bromomethane	1,820	1600	88	6	40
Carbon Disulfide	1,820	1600	88	12	40
Carbon tetrachloride	1,820	1700	93	6	40
Chlorobenzene	1,820	1700	93	6	34
Chloroethane	1,820	1700	93	34	40
Chloroform	1,820	1700	93	6	40
Chloromethane	1,820	1500	82	7	40
Dibromochloromethane	1,820	1600	88	0	40
Dibromomethane	1,820	1800	99	0	40
Dichlorodifluoromethane	1,820	1400	77	6	40
Ethyl Ether	1,820	1800	99	1	40
Ethylbenzene	1,820	1700	93	6	40
Hexachlorobutadiene	1,820	1700	93	6	40
Isopropylbenzene	1,820	1700	93	6	40
M/P Xylene	3,640	3500	96	4	40
Methyl-t-Butyl Ether	1,820	1900	100	0	40
Methylene Chloride	1,820	1700	93	6	40
N-Butylbenzene	1,820	1700	93	6	40
N-Propylbenzene	1,820	1700	93	6	40

Naphthalene	1,820	1800	99	1	40
Ortho Xylene	1,820	1800	99	1	40
Para-Isopropyltoluene	1,820	1600	88	6	40
Sec-Butylbenzene	1,820	1700	93	6	40
Styrene	1,820	1800	99	1	40
Tert-Butylbenzene	1,820	1800	99	0	40
Tetrachloroethylene	1,820	1700	93	6	40
Tetrahydrofuran	1,820	1900	100	10	40
Toluene	1,820	1700	93	6	33
Trans-1,2-Dichloroethylene	1,820	1700	93	6	40
Trichloroethylene	1,820	1600	88	6	27
Trichlorofluoromethane	1,820	1700	93	17	40
Vinyl Acetate	1,820	1700	93	6	40
Vinyl Chloride	1,820	1500	82	13	40
c-1,3-dichloropropene	1,820	1600	88	0	40
cis-1,2-Dichloroethylene	1,820	1700	93	7	40
t-1,3-Dichloropropene	1,820	1600	88	6	40

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32124

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	19.2	96	77 - 122
1,1,1-Trichloroethane	20	19.5	98	80 - 128
1,1,2,2-Tetrachloroethane	20	16.9	85	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	20.7	104	59 - 146
1,1,2-Trichloroethane	20	18.6	93	79 - 117
1,1-Dichloroethylene	20	17.6	88	70 - 130
1,1-Dichloropropene	20	18.2	91	79 - 123
1,1-dichloroethane	20	19.1	96	81 - 122
1,2,3-Trichlorobenzene	20	18.2	91	70 - 119
1,2,3-Trichloropropane	20	16.1	81	73 - 114
1,2,4-Trichlorobenzene	20	18.4	92	74 - 120
1,2,4-Trimethylbenzene	20	19.3	97	79 - 123
1,2-Dibromo-3-Chloropropane	20	15.6	78	63 - 124
1,2-Dibromoethane	20	17.2	86	79 - 116
1,2-Dichlorobenzene	20	18.4	92	77 - 117
1,2-Dichloroethane	20	18.6	93	75 - 124
1,2-Dichloropropane	20	18.4	92	80 - 117
1,3,5-Trimethylbenzene	20	19.3	97	80 - 122
1,3-Dichlorobenzene	20	18.5	93	78 - 117
1,3-Dichloropropane	20	17.6	88	79 - 116
1,4-Dichlorobenzene	20	18.2	91	77 - 115
2,2-Dichloropropane	20	20.7	104	64 - 152
2-Butanone (MEK)	20	18.3	92	55 - 144
2-Chlorotoluene	20	18.9	95	79 - 119
2-Hexanone	20	19.6	98	58 - 147
2-Propanone (acetone)	20	30.0	150	37 - 168
4-Chlorotoluene	20	18.7	94	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	16.7	84	68 - 125
Acrylonitrile	20	17.0	85	68 - 124
Benzene	20	19.2	96	80 - 120
Bromobenzene	20	18.3	92	80 - 115
Bromochloromethane	20	19.0	95	81 - 120
Bromodichloromethane	20	18.7	94	77 - 125
Bromoform	20	15.3	77	62 - 127
Bromomethane	20	18.5	93	60 - 139
Carbon Disulfide	20	20.0	100	73 - 129
Carbon tetrachloride	20	19.5	98	73 - 136
Chlorobenzene	20	19.6	98	82 - 119
Chloroethane	20	19.5	98	69 - 130
Chloroform	20	19.7	99	80 - 122
Chloromethane	20	18.0	90	65 - 129
Dibromochloromethane	20	16.9	85	71 - 129
Dibromomethane	20	17.6	88	79 - 115
Dichlorodifluoromethane	20	16.4	82	69 - 126
Ethyl Ether	20	19.0	95	69 - 127
Ethylbenzene	20	19.3	97	80 - 121
Hexachlorobutadiene	20	17.8	89	72 - 124
Isopropylbenzene	20	19.2	96	79 - 124
M/P Xylene	40	39.2	98	81 - 120
Methyl-t-Butyl Ether	20	18.5	93	78 - 120
Methylene Chloride	20	19.1	96	73 - 129
N-Butylbenzene	20	19.3	97	78 - 126

N-Propylbenzene	20	18.7	94	78 - 122
Naphthalene	20	16.1	81	66 - 124
Ortho Xylene	20	20.2	101	81 - 121
Para-Isopropyltoluene	20	17.7	89	77 - 127
Sec-Butylbenzene	20	19.4	97	79 - 124
Styrene	20	20.2	101	82 - 122
Tert-Butylbenzene	20	19.3	97	78 - 124
Tetrachloroethylene	20	19.0	95	77 - 118
Tetrahydrofuran	20	16.8	84	67 - 124
Toluene	20	19.6	98	81 - 120
Trans-1,2-Dichloroethylene	20	18.8	94	80 - 121
Trichloroethylene	20	18.0	90	80 - 117
Trichlorofluoromethane	20	19.0	95	68 - 137
Vinyl Acetate	20	16.7	84	25 - 150
Vinyl Chloride	20	19.0	95	67 - 134
c-1,3-dichloropropene	20	17.6	88	73 - 133
cis-1,2-Dichloroethylene	20	19.4	97	82 - 122
t-1,3-Dichloropropene	20	17.2	86	69 - 127

Comments: The percent recovery for acetone did not meet the acceptable QC criteria in the MS/MS and LFB/LFB Studies.

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	18.9	95	2	50
1,1,1-Trichloroethane	18.8	94	4	50
1,1,2,2-Tetrachloroethane	19.9	100	16	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	19.9	100	4	50
1,1,2-Trichloroethane	20.6	103	10	50
1,1-Dichloroethylene	17.2	86	2	52
1,1-Dichloropropene	17.6	88	3	50
1,1-dichloroethane	18.6	93	3	50
1,2,3-Trichlorobenzene	18.6	93	2	50
1,2,3-Trichloropropane	20.0	100	22	50
1,2,4-Trichlorobenzene	18.0	90	2	50
1,2,4-Trimethylbenzene	18.6	93	4	50
1,2-Dibromo-3-Chloropropane	19.5	98	22	50
1,2-Dibromoethane	19.8	99	14	50
1,2-Dichlorobenzene	18.3	92	1	50
1,2-Dichloroethane	19.4	97	4	50
1,2-Dichloropropane	18.3	92	1	50
1,3,5-Trimethylbenzene	18.6	93	4	50
1,3-Dichlorobenzene	18.0	90	3	50
1,3-Dichloropropane	19.3	97	9	50
1,4-Dichlorobenzene	17.7	89	3	50
2,2-Dichloropropane	19.8	99	4	50
2-Butanone (MEK)	23.6	118	25	50
2-Chlorotoluene	18.2	91	4	50
2-Hexanone	24.2	121	21	50
2-Propanone (acetone)	37.2	186	21	50
4-Chlorotoluene	18.1	91	3	50
4-Methyl-2-Pentanone(MIBK)	21.7	109	26	50
Acrylonitrile	21.5	108	23	50
Benzene	18.7	94	3	50
Bromobenzene	18.4	92	1	50
Bromochloromethane	19.6	98	3	50
Bromodichloromethane	18.9	95	1	50
Bromoform	17.5	88	13	50
Bromomethane	18.3	92	1	50
Carbon Disulfide	19.4	97	3	50
Carbon tetrachloride	18.7	94	4	50
Chlorobenzene	18.8	94	4	34
Chloroethane	18.6	93	5	50
Chloroform	19.1	96	3	50
Chloromethane	17.6	88	2	50
Dibromochloromethane	18.2	91	7	50
Dibromomethane	19.2	96	9	50
Dichlorodifluoromethane	16.0	80	3	50
Ethyl Ether	20.6	103	8	50
Ethylbenzene	18.5	93	4	50
Hexachlorobutadiene	16.9	85	5	50
Isopropylbenzene	18.8	94	2	50
M/P Xylene	37.0	93	6	50
Methyl-t-Butyl Ether	21.1	106	13	50
Methylene Chloride	18.5	93	3	50
N-Butylbenzene	18.0	90	7	50
N-Propylbenzene	18.1	91	3	50
Naphthalene	18.6	93	14	50
Ortho Xylene	19.2	96	5	50

Para-Isopropyltoluene	16.7	84	6	50
Sec-Butylbenzene	18.3	92	6	50
Styrene	19.2	96	5	50
Tert-Butylbenzene	18.7	94	3	50
Tetrachloroethylene	18.0	90	5	50
Tetrahydrofuran	21.3	107	24	50
Toluene	18.8	94	4	50
Trans-1,2-Dichloroethylene	18.3	92	3	50
Trichloroethylene	17.5	88	3	27
Trichlorofluoromethane	18.9	95	1	50
Vinyl Acetate	20.2	101	19	50
Vinyl Chloride	18.4	92	3	50
c-1,3-dichloropropene	17.8	89	1	50
cis-1,2-Dichloroethylene	19.2	96	1	50
t-1,3-Dichloropropene	18.5	93	7	50

Samples in Batch: AB32124, AB32125, AB32126, AB32127, AB32128, AB32129, AB32130, AB32131, AB32132, AB32133, AB32134, AB32135, AB32136, AB32137, AB32139, AB32140, AB32141, AB32142, AB32144, AB32145

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

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USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 4 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	**SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sny	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christa Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinqushed By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 13 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

August 30, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080054
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.30 09:51:45 -04'00'

Qualifiers:
RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-32	Lab Sample ID:	AB32180
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	80%
Dry Weight Extracted:	7.340 grams	Extract Dilution:	50
Wet Weight Extracted:	9.175 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	81	
71-55-6	1,1,1-Trichloroethane	ND	81	
79-34-5	1,1,2,2-Tetrachloroethane	ND	81	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	81	
79-00-5	1,1,2-Trichloroethane	ND	81	
75-35-4	1,1-Dichloroethylene	ND	81	
563-58-6	1,1-Dichloropropene	ND	81	
75-34-3	1,1-dichloroethane	ND	81	
87-61-6	1,2,3-Trichlorobenzene	ND	81	
96-18-4	1,2,3-Trichloropropane	ND	81	
120-82-1	1,2,4-Trichlorobenzene	ND	81	
95-63-6	1,2,4-Trimethylbenzene	ND	81	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	81	
106-93-4	1,2-Dibromoethane	ND	81	
95-50-1	1,2-Dichlorobenzene	ND	81	
107-06-2	1,2-Dichloroethane	ND	81	
78-87-5	1,2-Dichloropropane	ND	81	
108-67-8	1,3,5-Trimethylbenzene	ND	81	
541-73-1	1,3-Dichlorobenzene	ND	81	
142-28-9	1,3-Dichloropropane	ND	81	
106-46-7	1,4-Dichlorobenzene	ND	81	
594-20-7	2,2-Dichloropropane	ND	81	
78-93-3	2-Butanone (MEK)	ND	81	
95-49-8	2-Chlorotoluene	ND	81	
591-78-6	2-Hexanone	ND	81	
67-64-1	2-Propanone (acetone)	ND	81	
106-43-4	4-Chlorotoluene	ND	81	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	81	
107-13-1	Acrylonitrile	ND	81	
71-43-2	Benzene	ND	81	
108-86-1	Bromobenzene	ND	81	
74-97-5	Bromochloromethane	ND	81	
75-27-4	Bromodichloromethane	ND	81	
75-25-2	Bromoform	ND	81	
74-83-9	Bromomethane	ND	81	
75-15-0	Carbon Disulfide	ND	81	
56-23-5	Carbon tetrachloride	ND	81	
108-90-7	Chlorobenzene	ND	81	
75-00-3	Chloroethane	ND	81	
67-66-3	Chloroform	ND	81	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-32	Lab Sample ID:	AB32180
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	80%
Dry Weight Extracted:	7.340 grams	Extract Dilution:	50
Wet Weight Extracted:	9.175 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	81	
124-48-1	Dibromochloromethane	ND	81	
74-95-3	Dibromomethane	ND	81	
75-71-8	Dichlorodifluoromethane	ND	81	
60-29-7	Ethyl Ether	ND	81	
100-41-4	Ethylbenzene	ND	81	
87-68-3	Hexachlorobutadiene	ND	81	
98-82-8	Isopropylbenzene	ND	81	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	81	
75-09-2	Methylene Chloride	ND	81	
104-51-8	N-Butylbenzene	ND	81	
103-65-1	N-Propylbenzene	ND	81	
91-20-3	Naphthalene	ND	81	
95-47-6	Ortho Xylene	ND	81	
99-87-6	Para-Isopropyltoluene	ND	81	
135-98-8	Sec-Butylbenzene	ND	81	
100-42-5	Styrene	ND	81	
98-06-6	Tert-Butylbenzene	ND	81	
127-18-4	Tetrachloroethylene	ND	81	
109-99-9	Tetrahydrofuran	ND	81	
108-88-3	Toluene	ND	81	
156-60-5	Trans-1,2-Dichloroethylene	ND	81	
79-01-6	Trichloroethylene	ND	81	
75-69-4	Trichlorofluoromethane	ND	81	
108-05-4	Vinyl Acetate	ND	81	
75-01-4	Vinyl Chloride	ND	81	
10061-01-5	c-1,3-dichloropropene	ND	81	
156-59-2	cis-1,2-Dichloroethylene	ND	81	
10061-02-6	t-1,3-Dichloropropene	ND	81	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	97	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with sample(s) AB32180 (MS/MS and Duplicate Studies), AB32181 - AB32185, and AB32191 - AB32192.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-34	Lab Sample ID:	AB32181
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	7.956 grams	Extract Dilution:	50
Wet Weight Extracted:	9.586 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	73	
71-55-6	1,1,1-Trichloroethane	ND	73	
79-34-5	1,1,2,2-Tetrachloroethane	ND	73	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	73	
79-00-5	1,1,2-Trichloroethane	ND	73	
75-35-4	1,1-Dichloroethylene	ND	73	
563-58-6	1,1-Dichloropropene	ND	73	
75-34-3	1,1-dichloroethane	ND	73	
87-61-6	1,2,3-Trichlorobenzene	ND	73	
96-18-4	1,2,3-Trichloropropane	ND	73	
120-82-1	1,2,4-Trichlorobenzene	ND	73	
95-63-6	1,2,4-Trimethylbenzene	ND	73	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	73	
106-93-4	1,2-Dibromoethane	ND	73	
95-50-1	1,2-Dichlorobenzene	ND	73	
107-06-2	1,2-Dichloroethane	ND	73	
78-87-5	1,2-Dichloropropane	ND	73	
108-67-8	1,3,5-Trimethylbenzene	ND	73	
541-73-1	1,3-Dichlorobenzene	ND	73	
142-28-9	1,3-Dichloropropane	ND	73	
106-46-7	1,4-Dichlorobenzene	ND	73	
594-20-7	2,2-Dichloropropane	ND	73	
78-93-3	2-Butanone (MEK)	ND	73	
95-49-8	2-Chlorotoluene	ND	73	
591-78-6	2-Hexanone	ND	73	
67-64-1	2-Propanone (acetone)	ND	73	
106-43-4	4-Chlorotoluene	ND	73	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	73	
107-13-1	Acrylonitrile	ND	73	
71-43-2	Benzene	ND	73	
108-86-1	Bromobenzene	ND	73	
74-97-5	Bromochloromethane	ND	73	
75-27-4	Bromodichloromethane	ND	73	
75-25-2	Bromoform	ND	73	
74-83-9	Bromomethane	ND	73	
75-15-0	Carbon Disulfide	ND	73	
56-23-5	Carbon tetrachloride	ND	73	
108-90-7	Chlorobenzene	ND	73	
75-00-3	Chloroethane	ND	73	
67-66-3	Chloroform	ND	73	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-34	Lab Sample ID:	AB32181
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	7.956 grams	Extract Dilution:	50
Wet Weight Extracted:	9.586 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	73	
124-48-1	Dibromochloromethane	ND	73	
74-95-3	Dibromomethane	ND	73	
75-71-8	Dichlorodifluoromethane	ND	73	
60-29-7	Ethyl Ether	ND	73	
100-41-4	Ethylbenzene	ND	73	
87-68-3	Hexachlorobutadiene	ND	73	
98-82-8	Isopropylbenzene	ND	73	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	73	
75-09-2	Methylene Chloride	ND	73	
104-51-8	N-Butylbenzene	ND	73	
103-65-1	N-Propylbenzene	ND	73	
91-20-3	Naphthalene	ND	73	
95-47-6	Ortho Xylene	ND	73	
99-87-6	Para-Isopropyltoluene	ND	73	
135-98-8	Sec-Butylbenzene	ND	73	
100-42-5	Styrene	ND	73	
98-06-6	Tert-Butylbenzene	ND	73	
127-18-4	Tetrachloroethylene	ND	73	
109-99-9	Tetrahydrofuran	ND	73	
108-88-3	Toluene	ND	73	
156-60-5	Trans-1,2-Dichloroethylene	ND	73	
79-01-6	Trichloroethylene	ND	73	
75-69-4	Trichlorofluoromethane	ND	73	
108-05-4	Vinyl Acetate	ND	73	
75-01-4	Vinyl Chloride	ND	73	
10061-01-5	c-1,3-dichloropropene	ND	73	
156-59-2	cis-1,2-Dichloroethylene	ND	73	
10061-02-6	t-1,3-Dichloropropene	ND	73	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	96	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-35	Lab Sample ID:	AB32182
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.145 grams	Extract Dilution:	50
Wet Weight Extracted:	8.714 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	81	
71-55-6	1,1,1-Trichloroethane	ND	81	
79-34-5	1,1,2,2-Tetrachloroethane	ND	81	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	81	
79-00-5	1,1,2-Trichloroethane	ND	81	
75-35-4	1,1-Dichloroethylene	ND	81	
563-58-6	1,1-Dichloropropene	ND	81	
75-34-3	1,1-dichloroethane	ND	81	
87-61-6	1,2,3-Trichlorobenzene	ND	81	
96-18-4	1,2,3-Trichloropropane	ND	81	
120-82-1	1,2,4-Trichlorobenzene	ND	81	
95-63-6	1,2,4-Trimethylbenzene	ND	81	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	81	
106-93-4	1,2-Dibromoethane	ND	81	
95-50-1	1,2-Dichlorobenzene	ND	81	
107-06-2	1,2-Dichloroethane	ND	81	
78-87-5	1,2-Dichloropropane	ND	81	
108-67-8	1,3,5-Trimethylbenzene	ND	81	
541-73-1	1,3-Dichlorobenzene	ND	81	
142-28-9	1,3-Dichloropropane	ND	81	
106-46-7	1,4-Dichlorobenzene	ND	81	
594-20-7	2,2-Dichloropropane	ND	81	
78-93-3	2-Butanone (MEK)	ND	81	
95-49-8	2-Chlorotoluene	ND	81	
591-78-6	2-Hexanone	ND	81	
67-64-1	2-Propanone (acetone)	ND	81	
106-43-4	4-Chlorotoluene	ND	81	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	81	
107-13-1	Acrylonitrile	ND	81	
71-43-2	Benzene	ND	81	
108-86-1	Bromobenzene	ND	81	
74-97-5	Bromochloromethane	ND	81	
75-27-4	Bromodichloromethane	ND	81	
75-25-2	Bromoform	ND	81	
74-83-9	Bromomethane	ND	81	
75-15-0	Carbon Disulfide	ND	81	
56-23-5	Carbon tetrachloride	ND	81	
108-90-7	Chlorobenzene	ND	81	
75-00-3	Chloroethane	ND	81	
67-66-3	Chloroform	ND	81	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-35	Lab Sample ID:	AB32182
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.145 grams	Extract Dilution:	50
Wet Weight Extracted:	8.714 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	81	
124-48-1	Dibromochloromethane	ND	81	
74-95-3	Dibromomethane	ND	81	
75-71-8	Dichlorodifluoromethane	ND	81	
60-29-7	Ethyl Ether	ND	81	
100-41-4	Ethylbenzene	ND	81	
87-68-3	Hexachlorobutadiene	ND	81	
98-82-8	Isopropylbenzene	ND	81	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	81	
75-09-2	Methylene Chloride	ND	81	
104-51-8	N-Butylbenzene	ND	81	
103-65-1	N-Propylbenzene	ND	81	
91-20-3	Naphthalene	ND	81	
95-47-6	Ortho Xylene	ND	81	
99-87-6	Para-Isopropyltoluene	ND	81	
135-98-8	Sec-Butylbenzene	ND	81	
100-42-5	Styrene	ND	81	
98-06-6	Tert-Butylbenzene	ND	81	
127-18-4	Tetrachloroethylene	ND	81	
109-99-9	Tetrahydrofuran	ND	81	
108-88-3	Toluene	ND	81	
156-60-5	Trans-1,2-Dichloroethylene	ND	81	
79-01-6	Trichloroethylene	ND	81	
75-69-4	Trichlorofluoromethane	ND	81	
108-05-4	Vinyl Acetate	ND	81	
75-01-4	Vinyl Chloride	ND	81	
10061-01-5	c-1,3-dichloropropene	ND	81	
156-59-2	cis-1,2-Dichloroethylene	ND	81	
10061-02-6	t-1,3-Dichloropropene	ND	81	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-42	Lab Sample ID:	AB32183
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.226 grams	Extract Dilution:	50
Wet Weight Extracted:	8.812 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	80	
71-55-6	1,1,1-Trichloroethane	ND	80	
79-34-5	1,1,2,2-Tetrachloroethane	ND	80	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	80	
79-00-5	1,1,2-Trichloroethane	ND	80	
75-35-4	1,1-Dichloroethylene	ND	80	
563-58-6	1,1-Dichloropropene	ND	80	
75-34-3	1,1-dichloroethane	ND	80	
87-61-6	1,2,3-Trichlorobenzene	ND	80	
96-18-4	1,2,3-Trichloropropane	ND	80	
120-82-1	1,2,4-Trichlorobenzene	ND	80	
95-63-6	1,2,4-Trimethylbenzene	ND	80	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	80	
106-93-4	1,2-Dibromoethane	ND	80	
95-50-1	1,2-Dichlorobenzene	ND	80	
107-06-2	1,2-Dichloroethane	ND	80	
78-87-5	1,2-Dichloropropane	ND	80	
108-67-8	1,3,5-Trimethylbenzene	ND	80	
541-73-1	1,3-Dichlorobenzene	ND	80	
142-28-9	1,3-Dichloropropane	ND	80	
106-46-7	1,4-Dichlorobenzene	ND	80	
594-20-7	2,2-Dichloropropane	ND	80	
78-93-3	2-Butanone (MEK)	ND	80	
95-49-8	2-Chlorotoluene	ND	80	
591-78-6	2-Hexanone	ND	80	
67-64-1	2-Propanone (acetone)	**160**	80	
106-43-4	4-Chlorotoluene	ND	80	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	80	
107-13-1	Acrylonitrile	ND	80	
71-43-2	Benzene	ND	80	
108-86-1	Bromobenzene	ND	80	
74-97-5	Bromochloromethane	ND	80	
75-27-4	Bromodichloromethane	ND	80	
75-25-2	Bromoform	ND	80	
74-83-9	Bromomethane	ND	80	
75-15-0	Carbon Disulfide	ND	80	
56-23-5	Carbon tetrachloride	ND	80	
108-90-7	Chlorobenzene	ND	80	
75-00-3	Chloroethane	ND	80	
67-66-3	Chloroform	ND	80	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-42	Lab Sample ID:	AB32183
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.226 grams	Extract Dilution:	50
Wet Weight Extracted:	8.812 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	80	
124-48-1	Dibromochloromethane	ND	80	
74-95-3	Dibromomethane	ND	80	
75-71-8	Dichlorodifluoromethane	ND	80	
60-29-7	Ethyl Ether	ND	80	
100-41-4	Ethylbenzene	ND	80	
87-68-3	Hexachlorobutadiene	ND	80	
98-82-8	Isopropylbenzene	ND	80	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	80	
75-09-2	Methylene Chloride	ND	80	
104-51-8	N-Butylbenzene	ND	80	
103-65-1	N-Propylbenzene	ND	80	
91-20-3	Naphthalene	ND	80	
95-47-6	Ortho Xylene	ND	80	
99-87-6	Para-Isopropyltoluene	ND	80	
135-98-8	Sec-Butylbenzene	ND	80	
100-42-5	Styrene	ND	80	
98-06-6	Tert-Butylbenzene	ND	80	
127-18-4	Tetrachloroethylene	ND	80	
109-99-9	Tetrahydrofuran	ND	80	
108-88-3	Toluene	ND	80	
156-60-5	Trans-1,2-Dichloroethylene	ND	80	
79-01-6	Trichloroethylene	ND	80	
75-69-4	Trichlorofluoromethane	ND	80	
108-05-4	Vinyl Acetate	ND	80	
75-01-4	Vinyl Chloride	ND	80	
10061-01-5	c-1,3-dichloropropene	ND	80	
156-59-2	cis-1,2-Dichloroethylene	ND	80	
10061-02-6	t-1,3-Dichloropropene	ND	80	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	97	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-43	Lab Sample ID:	AB32184
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.670 grams	Extract Dilution:	50
Wet Weight Extracted:	9.354 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	76	
71-55-6	1,1,1-Trichloroethane	ND	76	
79-34-5	1,1,2,2-Tetrachloroethane	ND	76	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	76	
79-00-5	1,1,2-Trichloroethane	ND	76	
75-35-4	1,1-Dichloroethylene	ND	76	
563-58-6	1,1-Dichloropropene	ND	76	
75-34-3	1,1-dichloroethane	ND	76	
87-61-6	1,2,3-Trichlorobenzene	ND	76	
96-18-4	1,2,3-Trichloropropane	ND	76	
120-82-1	1,2,4-Trichlorobenzene	ND	76	
95-63-6	1,2,4-Trimethylbenzene	ND	76	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	76	
106-93-4	1,2-Dibromoethane	ND	76	
95-50-1	1,2-Dichlorobenzene	ND	76	
107-06-2	1,2-Dichloroethane	ND	76	
78-87-5	1,2-Dichloropropane	ND	76	
108-67-8	1,3,5-Trimethylbenzene	ND	76	
541-73-1	1,3-Dichlorobenzene	ND	76	
142-28-9	1,3-Dichloropropane	ND	76	
106-46-7	1,4-Dichlorobenzene	ND	76	
594-20-7	2,2-Dichloropropane	ND	76	
78-93-3	2-Butanone (MEK)	ND	76	
95-49-8	2-Chlorotoluene	ND	76	
591-78-6	2-Hexanone	ND	76	
67-64-1	2-Propanone (acetone)	ND	76	
106-43-4	4-Chlorotoluene	ND	76	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	76	
107-13-1	Acrylonitrile	ND	76	
71-43-2	Benzene	ND	76	
108-86-1	Bromobenzene	ND	76	
74-97-5	Bromochloromethane	ND	76	
75-27-4	Bromodichloromethane	ND	76	
75-25-2	Bromoform	ND	76	
74-83-9	Bromomethane	ND	76	
75-15-0	Carbon Disulfide	ND	76	
56-23-5	Carbon tetrachloride	ND	76	
108-90-7	Chlorobenzene	ND	76	
75-00-3	Chloroethane	ND	76	
67-66-3	Chloroform	ND	76	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-43	Lab Sample ID:	AB32184
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	7.670 grams	Extract Dilution:	50
Wet Weight Extracted:	9.354 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	76	
124-48-1	Dibromochloromethane	ND	76	
74-95-3	Dibromomethane	ND	76	
75-71-8	Dichlorodifluoromethane	ND	76	
60-29-7	Ethyl Ether	ND	76	
100-41-4	Ethylbenzene	ND	76	
87-68-3	Hexachlorobutadiene	ND	76	
98-82-8	Isopropylbenzene	ND	76	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	76	
75-09-2	Methylene Chloride	ND	76	
104-51-8	N-Butylbenzene	ND	76	
103-65-1	N-Propylbenzene	ND	76	
91-20-3	Naphthalene	ND	76	
95-47-6	Ortho Xylene	ND	76	
99-87-6	Para-Isopropyltoluene	ND	76	
135-98-8	Sec-Butylbenzene	ND	76	
100-42-5	Styrene	ND	76	
98-06-6	Tert-Butylbenzene	ND	76	
127-18-4	Tetrachloroethylene	ND	76	
109-99-9	Tetrahydrofuran	ND	76	
108-88-3	Toluene	ND	76	
156-60-5	Trans-1,2-Dichloroethylene	ND	76	
79-01-6	Trichloroethylene	ND	76	
75-69-4	Trichlorofluoromethane	ND	76	
108-05-4	Vinyl Acetate	ND	76	
75-01-4	Vinyl Chloride	ND	76	
10061-01-5	c-1,3-dichloropropene	ND	76	
156-59-2	cis-1,2-Dichloroethylene	ND	76	
10061-02-6	t-1,3-Dichloropropene	ND	76	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	97	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	98	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-44	Lab Sample ID:	AB32185
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	83%
Dry Weight Extracted:	8.683 grams	Extract Dilution:	50
Wet Weight Extracted:	10.462 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	68	
71-55-6	1,1,1-Trichloroethane	ND	68	
79-34-5	1,1,2,2-Tetrachloroethane	ND	68	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	68	
79-00-5	1,1,2-Trichloroethane	ND	68	
75-35-4	1,1-Dichloroethylene	ND	68	
563-58-6	1,1-Dichloropropene	ND	68	
75-34-3	1,1-dichloroethane	ND	68	
87-61-6	1,2,3-Trichlorobenzene	ND	68	
96-18-4	1,2,3-Trichloropropane	ND	68	
120-82-1	1,2,4-Trichlorobenzene	ND	68	
95-63-6	1,2,4-Trimethylbenzene	ND	68	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	68	
106-93-4	1,2-Dibromoethane	ND	68	
95-50-1	1,2-Dichlorobenzene	ND	68	
107-06-2	1,2-Dichloroethane	ND	68	
78-87-5	1,2-Dichloropropane	ND	68	
108-67-8	1,3,5-Trimethylbenzene	ND	68	
541-73-1	1,3-Dichlorobenzene	ND	68	
142-28-9	1,3-Dichloropropane	ND	68	
106-46-7	1,4-Dichlorobenzene	ND	68	
594-20-7	2,2-Dichloropropane	ND	68	
78-93-3	2-Butanone (MEK)	ND	68	
95-49-8	2-Chlorotoluene	ND	68	
591-78-6	2-Hexanone	ND	68	
67-64-1	2-Propanone (acetone)	ND	68	
106-43-4	4-Chlorotoluene	ND	68	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	68	
107-13-1	Acrylonitrile	ND	68	
71-43-2	Benzene	ND	68	
108-86-1	Bromobenzene	ND	68	
74-97-5	Bromochloromethane	ND	68	
75-27-4	Bromodichloromethane	ND	68	
75-25-2	Bromoform	ND	68	
74-83-9	Bromomethane	ND	68	
75-15-0	Carbon Disulfide	ND	68	
56-23-5	Carbon tetrachloride	ND	68	
108-90-7	Chlorobenzene	ND	68	
75-00-3	Chloroethane	ND	68	
67-66-3	Chloroform	ND	68	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-44		Lab Sample ID:	AB32185
Date of Collection:	8/21/2012		Matrix	Soil
Date of Extraction:	8/24/12		Volume Purged:	5 mL
Date of Analysis:	8/24/12		Percent Solids:	83%
Dry Weight Extracted:	8.683 grams		Extract Dilution:	50
Wet Weight Extracted:	10.462 grams		pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	68	
124-48-1	Dibromochloromethane	ND	68	
74-95-3	Dibromomethane	ND	68	
75-71-8	Dichlorodifluoromethane	ND	68	
60-29-7	Ethyl Ether	ND	68	
100-41-4	Ethylbenzene	ND	68	
87-68-3	Hexachlorobutadiene	ND	68	
98-82-8	Isopropylbenzene	ND	68	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	68	
75-09-2	Methylene Chloride	ND	68	
104-51-8	N-Butylbenzene	ND	68	
103-65-1	N-Propylbenzene	ND	68	
91-20-3	Naphthalene	ND	68	
95-47-6	Ortho Xylene	ND	68	
99-87-6	Para-Isopropyltoluene	ND	68	
135-98-8	Sec-Butylbenzene	ND	68	
100-42-5	Styrene	ND	68	
98-06-6	Tert-Butylbenzene	ND	68	
127-18-4	Tetrachloroethylene	ND	68	
109-99-9	Tetrahydrofuran	ND	68	
108-88-3	Toluene	ND	68	
156-60-5	Trans-1,2-Dichloroethylene	ND	68	
79-01-6	Trichloroethylene	ND	68	
75-69-4	Trichlorofluoromethane	ND	68	
108-05-4	Vinyl Acetate	ND	68	
75-01-4	Vinyl Chloride	ND	68	
10061-01-5	c-1,3-dichloropropene	ND	68	
156-59-2	cis-1,2-Dichloroethylene	ND	68	
10061-02-6	t-1,3-Dichloropropene	ND	68	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	98	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-51	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	8.455 grams	Extract Dilution:	50
Wet Weight Extracted:	9.091 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	63	
71-55-6	1,1,1-Trichloroethane	ND	63	
79-34-5	1,1,2,2-Tetrachloroethane	ND	63	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	63	
79-00-5	1,1,2-Trichloroethane	ND	63	
75-35-4	1,1-Dichloroethylene	ND	63	
563-58-6	1,1-Dichloropropene	ND	63	
75-34-3	1,1-dichloroethane	ND	63	
87-61-6	1,2,3-Trichlorobenzene	ND	63	
96-18-4	1,2,3-Trichloropropane	ND	63	
120-82-1	1,2,4-Trichlorobenzene	ND	63	
95-63-6	1,2,4-Trimethylbenzene	ND	63	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	63	
106-93-4	1,2-Dibromoethane	ND	63	
95-50-1	1,2-Dichlorobenzene	ND	63	
107-06-2	1,2-Dichloroethane	ND	63	
78-87-5	1,2-Dichloropropane	ND	63	
108-67-8	1,3,5-Trimethylbenzene	ND	63	
541-73-1	1,3-Dichlorobenzene	ND	63	
142-28-9	1,3-Dichloropropane	ND	63	
106-46-7	1,4-Dichlorobenzene	ND	63	
594-20-7	2,2-Dichloropropane	ND	63	
78-93-3	2-Butanone (MEK)	ND	63	
95-49-8	2-Chlorotoluene	ND	63	
591-78-6	2-Hexanone	ND	63	
67-64-1	2-Propanone (acetone)	**160**	63	
106-43-4	4-Chlorotoluene	ND	63	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	63	
107-13-1	Acrylonitrile	ND	63	
71-43-2	Benzene	ND	63	
108-86-1	Bromobenzene	ND	63	
74-97-5	Bromochloromethane	ND	63	
75-27-4	Bromodichloromethane	ND	63	
75-25-2	Bromoform	ND	63	
74-83-9	Bromomethane	ND	63	
75-15-0	Carbon Disulfide	ND	63	
56-23-5	Carbon tetrachloride	ND	63	
108-90-7	Chlorobenzene	ND	63	
75-00-3	Chloroethane	ND	63	
67-66-3	Chloroform	ND	63	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-51	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	8.455 grams	Extract Dilution:	50
Wet Weight Extracted:	9.091 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	63	
124-48-1	Dibromochloromethane	ND	63	
74-95-3	Dibromomethane	ND	63	
75-71-8	Dichlorodifluoromethane	ND	63	
60-29-7	Ethyl Ether	ND	63	
100-41-4	Ethylbenzene	ND	63	
87-68-3	Hexachlorobutadiene	ND	63	
98-82-8	Isopropylbenzene	ND	63	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	63	
75-09-2	Methylene Chloride	ND	63	
104-51-8	N-Butylbenzene	ND	63	
103-65-1	N-Propylbenzene	ND	63	
91-20-3	Naphthalene	ND	63	
95-47-6	Ortho Xylene	ND	63	
99-87-6	Para-Isopropyltoluene	ND	63	
135-98-8	Sec-Butylbenzene	ND	63	
100-42-5	Styrene	ND	63	
98-06-6	Tert-Butylbenzene	ND	63	
127-18-4	Tetrachloroethylene	ND	63	
109-99-9	Tetrahydrofuran	ND	63	
108-88-3	Toluene	ND	63	
156-60-5	Trans-1,2-Dichloroethylene	ND	63	
79-01-6	Trichloroethylene	ND	63	
75-69-4	Trichlorofluoromethane	ND	63	
108-05-4	Vinyl Acetate	ND	63	
75-01-4	Vinyl Chloride	ND	63	
10061-01-5	c-1,3-dichloropropene	ND	63	
156-59-2	cis-1,2-Dichloroethylene	ND	63	
10061-02-6	t-1,3-Dichloropropene	ND	63	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-52	Lab Sample ID:	AB32192
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	6.018 grams	Extract Dilution:	50
Wet Weight Extracted:	6.998 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	91	
71-55-6	1,1,1-Trichloroethane	ND	91	
79-34-5	1,1,2,2-Tetrachloroethane	ND	91	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	91	
79-00-5	1,1,2-Trichloroethane	ND	91	
75-35-4	1,1-Dichloroethylene	ND	91	
563-58-6	1,1-Dichloropropene	ND	91	
75-34-3	1,1-dichloroethane	ND	91	
87-61-6	1,2,3-Trichlorobenzene	ND	91	
96-18-4	1,2,3-Trichloropropane	ND	91	
120-82-1	1,2,4-Trichlorobenzene	ND	91	
95-63-6	1,2,4-Trimethylbenzene	ND	91	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	91	
106-93-4	1,2-Dibromoethane	ND	91	
95-50-1	1,2-Dichlorobenzene	ND	91	
107-06-2	1,2-Dichloroethane	ND	91	
78-87-5	1,2-Dichloropropane	ND	91	
108-67-8	1,3,5-Trimethylbenzene	ND	91	
541-73-1	1,3-Dichlorobenzene	ND	91	
142-28-9	1,3-Dichloropropane	ND	91	
106-46-7	1,4-Dichlorobenzene	ND	91	
594-20-7	2,2-Dichloropropane	ND	91	
78-93-3	2-Butanone (MEK)	ND	91	
95-49-8	2-Chlorotoluene	ND	91	
591-78-6	2-Hexanone	ND	91	
67-64-1	2-Propanone (acetone)	ND	91	
106-43-4	4-Chlorotoluene	ND	91	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	91	
107-13-1	Acrylonitrile	ND	91	
71-43-2	Benzene	ND	91	
108-86-1	Bromobenzene	ND	91	
74-97-5	Bromochloromethane	ND	91	
75-27-4	Bromodichloromethane	ND	91	
75-25-2	Bromoform	ND	91	
74-83-9	Bromomethane	ND	91	
75-15-0	Carbon Disulfide	ND	91	
56-23-5	Carbon tetrachloride	ND	91	
108-90-7	Chlorobenzene	ND	91	
75-00-3	Chloroethane	ND	91	
67-66-3	Chloroform	ND	91	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-52	Lab Sample ID:	AB32192
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	6.018 grams	Extract Dilution:	50
Wet Weight Extracted:	6.998 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	91	
124-48-1	Dibromochloromethane	ND	91	
74-95-3	Dibromomethane	ND	91	
75-71-8	Dichlorodifluoromethane	ND	91	
60-29-7	Ethyl Ether	ND	91	
100-41-4	Ethylbenzene	ND	91	
87-68-3	Hexachlorobutadiene	ND	91	
98-82-8	Isopropylbenzene	ND	91	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	91	
75-09-2	Methylene Chloride	ND	91	
104-51-8	N-Butylbenzene	ND	91	
103-65-1	N-Propylbenzene	ND	91	
91-20-3	Naphthalene	ND	91	
95-47-6	Ortho Xylene	ND	91	
99-87-6	Para-Isopropyltoluene	ND	91	
135-98-8	Sec-Butylbenzene	ND	91	
100-42-5	Styrene	ND	91	
98-06-6	Tert-Butylbenzene	ND	91	
127-18-4	Tetrachloroethylene	ND	91	
109-99-9	Tetrahydrofuran	ND	91	
108-88-3	Toluene	ND	91	
156-60-5	Trans-1,2-Dichloroethylene	ND	91	
79-01-6	Trichloroethylene	ND	91	
75-69-4	Trichlorofluoromethane	ND	91	
108-05-4	Vinyl Acetate	ND	91	
75-01-4	Vinyl Chloride	ND	91	
10061-01-5	c-1,3-dichloropropene	ND	91	
156-59-2	cis-1,2-Dichloroethylene	ND	91	
10061-02-6	t-1,3-Dichloropropene	ND	91	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	98	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-53	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	8.384 grams	Extract Dilution:	50
Wet Weight Extracted:	9.749 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	68	
71-55-6	1,1,1-Trichloroethane	ND	68	
79-34-5	1,1,2,2-Tetrachloroethane	ND	68	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	68	
79-00-5	1,1,2-Trichloroethane	ND	68	
75-35-4	1,1-Dichloroethylene	ND	68	
563-58-6	1,1-Dichloropropene	ND	68	
75-34-3	1,1-dichloroethane	ND	68	
87-61-6	1,2,3-Trichlorobenzene	ND	68	
96-18-4	1,2,3-Trichloropropane	ND	68	
120-82-1	1,2,4-Trichlorobenzene	ND	68	
95-63-6	1,2,4-Trimethylbenzene	ND	68	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	68	
106-93-4	1,2-Dibromoethane	ND	68	
95-50-1	1,2-Dichlorobenzene	ND	68	
107-06-2	1,2-Dichloroethane	ND	68	
78-87-5	1,2-Dichloropropane	ND	68	
108-67-8	1,3,5-Trimethylbenzene	ND	68	
541-73-1	1,3-Dichlorobenzene	ND	68	
142-28-9	1,3-Dichloropropane	ND	68	
106-46-7	1,4-Dichlorobenzene	ND	68	
594-20-7	2,2-Dichloropropane	ND	68	
78-93-3	2-Butanone (MEK)	ND	68	
95-49-8	2-Chlorotoluene	ND	68	
591-78-6	2-Hexanone	ND	68	
67-64-1	2-Propanone (acetone)	ND	68	
106-43-4	4-Chlorotoluene	ND	68	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	68	
107-13-1	Acrylonitrile	ND	68	
71-43-2	Benzene	ND	68	
108-86-1	Bromobenzene	ND	68	
74-97-5	Bromochloromethane	ND	68	
75-27-4	Bromodichloromethane	ND	68	
75-25-2	Bromoform	ND	68	
74-83-9	Bromomethane	ND	68	
75-15-0	Carbon Disulfide	ND	68	
56-23-5	Carbon tetrachloride	ND	68	
108-90-7	Chlorobenzene	ND	68	
75-00-3	Chloroethane	ND	68	
67-66-3	Chloroform	ND	68	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-53	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	8.384 grams	Extract Dilution:	50
Wet Weight Extracted:	9.749 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	68	
124-48-1	Dibromochloromethane	ND	68	
74-95-3	Dibromomethane	ND	68	
75-71-8	Dichlorodifluoromethane	ND	68	
60-29-7	Ethyl Ether	ND	68	
100-41-4	Ethylbenzene	ND	68	
87-68-3	Hexachlorobutadiene	ND	68	
98-82-8	Isopropylbenzene	ND	68	
108-38-3/106-42-	M/P Xylene	ND	140	
1634-04-4	Methyl-t-Butyl Ether	ND	68	
75-09-2	Methylene Chloride	ND	68	
104-51-8	N-Butylbenzene	ND	68	
103-65-1	N-Propylbenzene	ND	68	
91-20-3	Naphthalene	ND	68	
95-47-6	Ortho Xylene	ND	68	
99-87-6	Para-Isopropyltoluene	ND	68	
135-98-8	Sec-Butylbenzene	ND	68	
100-42-5	Styrene	ND	68	
98-06-6	Tert-Butylbenzene	ND	68	
127-18-4	Tetrachloroethylene	ND	68	
109-99-9	Tetrahydrofuran	ND	68	
108-88-3	Toluene	ND	68	
156-60-5	Trans-1,2-Dichloroethylene	ND	68	
79-01-6	Trichloroethylene	ND	68	
75-69-4	Trichlorofluoromethane	ND	68	
108-05-4	Vinyl Acetate	ND	68	
75-01-4	Vinyl Chloride	ND	68	
10061-01-5	c-1,3-dichloropropene	ND	68	
156-59-2	cis-1,2-Dichloroethylene	ND	68	
10061-02-6	t-1,3-Dichloropropene	ND	68	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	93	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with sample(s) AB32193, and AB32200 - AB32210.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-60	Lab Sample ID:	AB32200
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	7.184 grams	Extract Dilution:	50
Wet Weight Extracted:	7.895 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	75	
71-55-6	1,1,1-Trichloroethane	ND	75	
79-34-5	1,1,2,2-Tetrachloroethane	ND	75	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	75	
79-00-5	1,1,2-Trichloroethane	ND	75	
75-35-4	1,1-Dichloroethylene	ND	75	
563-58-6	1,1-Dichloropropene	ND	75	
75-34-3	1,1-dichloroethane	ND	75	
87-61-6	1,2,3-Trichlorobenzene	ND	75	
96-18-4	1,2,3-Trichloropropane	ND	75	
120-82-1	1,2,4-Trichlorobenzene	ND	75	
95-63-6	1,2,4-Trimethylbenzene	ND	75	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	75	
106-93-4	1,2-Dibromoethane	ND	75	
95-50-1	1,2-Dichlorobenzene	ND	75	
107-06-2	1,2-Dichloroethane	ND	75	
78-87-5	1,2-Dichloropropane	ND	75	
108-67-8	1,3,5-Trimethylbenzene	ND	75	
541-73-1	1,3-Dichlorobenzene	ND	75	
142-28-9	1,3-Dichloropropane	ND	75	
106-46-7	1,4-Dichlorobenzene	ND	75	
594-20-7	2,2-Dichloropropane	ND	75	
78-93-3	2-Butanone (MEK)	ND	75	
95-49-8	2-Chlorotoluene	ND	75	
591-78-6	2-Hexanone	ND	75	
67-64-1	2-Propanone (acetone)	ND	75	
106-43-4	4-Chlorotoluene	ND	75	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	75	
107-13-1	Acrylonitrile	ND	75	
71-43-2	Benzene	ND	75	
108-86-1	Bromobenzene	ND	75	
74-97-5	Bromochloromethane	ND	75	
75-27-4	Bromodichloromethane	ND	75	
75-25-2	Bromoform	ND	75	
74-83-9	Bromomethane	ND	75	
75-15-0	Carbon Disulfide	ND	75	
56-23-5	Carbon tetrachloride	ND	75	
108-90-7	Chlorobenzene	ND	75	
75-00-3	Chloroethane	ND	75	
67-66-3	Chloroform	ND	75	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-60	Lab Sample ID:	AB32200
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	7.184 grams	Extract Dilution:	50
Wet Weight Extracted:	7.895 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	75	
124-48-1	Dibromochloromethane	ND	75	
74-95-3	Dibromomethane	ND	75	
75-71-8	Dichlorodifluoromethane	ND	75	
60-29-7	Ethyl Ether	ND	75	
100-41-4	Ethylbenzene	ND	75	
87-68-3	Hexachlorobutadiene	ND	75	
98-82-8	Isopropylbenzene	ND	75	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	75	
75-09-2	Methylene Chloride	ND	75	
104-51-8	N-Butylbenzene	ND	75	
103-65-1	N-Propylbenzene	ND	75	
91-20-3	Naphthalene	ND	75	
95-47-6	Ortho Xylene	ND	75	
99-87-6	Para-Isopropyltoluene	ND	75	
135-98-8	Sec-Butylbenzene	ND	75	
100-42-5	Styrene	ND	75	
98-06-6	Tert-Butylbenzene	ND	75	
127-18-4	Tetrachloroethylene	ND	75	
109-99-9	Tetrahydrofuran	ND	75	
108-88-3	Toluene	ND	75	
156-60-5	Trans-1,2-Dichloroethylene	ND	75	
79-01-6	Trichloroethylene	ND	75	
75-69-4	Trichlorofluoromethane	ND	75	
108-05-4	Vinyl Acetate	ND	75	
75-01-4	Vinyl Chloride	ND	75	
10061-01-5	c-1,3-dichloropropene	ND	75	
156-59-2	cis-1,2-Dichloroethylene	ND	75	
10061-02-6	t-1,3-Dichloropropene	ND	75	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	108	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-61	Lab Sample ID:	AB32201
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	7.349 grams	Extract Dilution:	50
Wet Weight Extracted:	8.165 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	74	
79-34-5	1,1,2,2-Tetrachloroethane	ND	74	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	74	
79-00-5	1,1,2-Trichloroethane	ND	74	
75-35-4	1,1-Dichloroethylene	ND	74	
563-58-6	1,1-Dichloropropene	ND	74	
75-34-3	1,1-dichloroethane	ND	74	
87-61-6	1,2,3-Trichlorobenzene	ND	74	
96-18-4	1,2,3-Trichloropropane	ND	74	
120-82-1	1,2,4-Trichlorobenzene	ND	74	
95-63-6	1,2,4-Trimethylbenzene	ND	74	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	74	
106-93-4	1,2-Dibromoethane	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	74	
107-06-2	1,2-Dichloroethane	ND	74	
78-87-5	1,2-Dichloropropane	ND	74	
108-67-8	1,3,5-Trimethylbenzene	ND	74	
541-73-1	1,3-Dichlorobenzene	ND	74	
142-28-9	1,3-Dichloropropane	ND	74	
106-46-7	1,4-Dichlorobenzene	ND	74	
594-20-7	2,2-Dichloropropane	ND	74	
78-93-3	2-Butanone (MEK)	ND	74	
95-49-8	2-Chlorotoluene	ND	74	
591-78-6	2-Hexanone	ND	74	
67-64-1	2-Propanone (acetone)	ND	74	
106-43-4	4-Chlorotoluene	ND	74	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	74	
107-13-1	Acrylonitrile	ND	74	
71-43-2	Benzene	ND	74	
108-86-1	Bromobenzene	ND	74	
74-97-5	Bromochloromethane	ND	74	
75-27-4	Bromodichloromethane	ND	74	
75-25-2	Bromoform	ND	74	
74-83-9	Bromomethane	ND	74	
75-15-0	Carbon Disulfide	ND	74	
56-23-5	Carbon tetrachloride	ND	74	
108-90-7	Chlorobenzene	ND	74	
75-00-3	Chloroethane	ND	74	
67-66-3	Chloroform	ND	74	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-61	Lab Sample ID:	AB32201
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	90%
Dry Weight Extracted:	7.349 grams	Extract Dilution:	50
Wet Weight Extracted:	8.165 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	74	
124-48-1	Dibromochloromethane	ND	74	
74-95-3	Dibromomethane	ND	74	
75-71-8	Dichlorodifluoromethane	ND	74	
60-29-7	Ethyl Ether	ND	74	
100-41-4	Ethylbenzene	ND	74	
87-68-3	Hexachlorobutadiene	ND	74	
98-82-8	Isopropylbenzene	ND	74	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	74	
75-09-2	Methylene Chloride	ND	74	
104-51-8	N-Butylbenzene	ND	74	
103-65-1	N-Propylbenzene	ND	74	
91-20-3	Naphthalene	ND	74	
95-47-6	Ortho Xylene	ND	74	
99-87-6	Para-Isopropyltoluene	ND	74	
135-98-8	Sec-Butylbenzene	ND	74	
100-42-5	Styrene	ND	74	
98-06-6	Tert-Butylbenzene	ND	74	
127-18-4	Tetrachloroethylene	ND	74	
109-99-9	Tetrahydrofuran	ND	74	
108-88-3	Toluene	ND	74	
156-60-5	Trans-1,2-Dichloroethylene	ND	74	
79-01-6	Trichloroethylene	ND	74	
75-69-4	Trichlorofluoromethane	ND	74	
108-05-4	Vinyl Acetate	ND	74	
75-01-4	Vinyl Chloride	ND	74	
10061-01-5	c-1,3-dichloropropene	ND	74	
156-59-2	cis-1,2-Dichloroethylene	ND	74	
10061-02-6	t-1,3-Dichloropropene	ND	74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	99	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-62	Lab Sample ID:	AB32202
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	89%
Dry Weight Extracted:	8.467 grams	Extract Dilution:	50
Wet Weight Extracted:	9.513 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	65	
71-55-6	1,1,1-Trichloroethane	ND	65	
79-34-5	1,1,2,2-Tetrachloroethane	ND	65	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	65	
79-00-5	1,1,2-Trichloroethane	ND	65	
75-35-4	1,1-Dichloroethylene	ND	65	
563-58-6	1,1-Dichloropropene	ND	65	
75-34-3	1,1-dichloroethane	ND	65	
87-61-6	1,2,3-Trichlorobenzene	ND	65	
96-18-4	1,2,3-Trichloropropane	ND	65	
120-82-1	1,2,4-Trichlorobenzene	ND	65	
95-63-6	1,2,4-Trimethylbenzene	ND	65	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	65	
106-93-4	1,2-Dibromoethane	ND	65	
95-50-1	1,2-Dichlorobenzene	ND	65	
107-06-2	1,2-Dichloroethane	ND	65	
78-87-5	1,2-Dichloropropane	ND	65	
108-67-8	1,3,5-Trimethylbenzene	ND	65	
541-73-1	1,3-Dichlorobenzene	ND	65	
142-28-9	1,3-Dichloropropane	ND	65	
106-46-7	1,4-Dichlorobenzene	ND	65	
594-20-7	2,2-Dichloropropane	ND	65	
78-93-3	2-Butanone (MEK)	ND	65	
95-49-8	2-Chlorotoluene	ND	65	
591-78-6	2-Hexanone	ND	65	
67-64-1	2-Propanone (acetone)	ND	65	
106-43-4	4-Chlorotoluene	ND	65	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	65	
107-13-1	Acrylonitrile	ND	65	
71-43-2	Benzene	ND	65	
108-86-1	Bromobenzene	ND	65	
74-97-5	Bromochloromethane	ND	65	
75-27-4	Bromodichloromethane	ND	65	
75-25-2	Bromoform	ND	65	
74-83-9	Bromomethane	ND	65	
75-15-0	Carbon Disulfide	ND	65	
56-23-5	Carbon tetrachloride	ND	65	
108-90-7	Chlorobenzene	ND	65	
75-00-3	Chloroethane	ND	65	
67-66-3	Chloroform	ND	65	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-62	Lab Sample ID:	AB32202
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	89%
Dry Weight Extracted:	8.467 grams	Extract Dilution:	50
Wet Weight Extracted:	9.513 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	65	
124-48-1	Dibromochloromethane	ND	65	
74-95-3	Dibromomethane	ND	65	
75-71-8	Dichlorodifluoromethane	ND	65	
60-29-7	Ethyl Ether	ND	65	
100-41-4	Ethylbenzene	ND	65	
87-68-3	Hexachlorobutadiene	ND	65	
98-82-8	Isopropylbenzene	ND	65	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	65	
75-09-2	Methylene Chloride	ND	65	
104-51-8	N-Butylbenzene	ND	65	
103-65-1	N-Propylbenzene	ND	65	
91-20-3	Naphthalene	ND	65	
95-47-6	Ortho Xylene	ND	65	
99-87-6	Para-Isopropyltoluene	ND	65	
135-98-8	Sec-Butylbenzene	ND	65	
100-42-5	Styrene	ND	65	
98-06-6	Tert-Butylbenzene	ND	65	
127-18-4	Tetrachloroethylene	ND	65	
109-99-9	Tetrahydrofuran	ND	65	
108-88-3	Toluene	ND	65	
156-60-5	Trans-1,2-Dichloroethylene	ND	65	
79-01-6	Trichloroethylene	ND	65	
75-69-4	Trichlorofluoromethane	ND	65	
108-05-4	Vinyl Acetate	ND	65	
75-01-4	Vinyl Chloride	ND	65	
10061-01-5	c-1,3-dichloropropene	ND	65	
156-59-2	cis-1,2-Dichloroethylene	ND	65	
10061-02-6	t-1,3-Dichloropropene	ND	65	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-69	Lab Sample ID:	AB32203
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	8.241 grams	Extract Dilution:	50
Wet Weight Extracted:	8.861 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	64	
71-55-6	1,1,1-Trichloroethane	ND	64	
79-34-5	1,1,2,2-Tetrachloroethane	ND	64	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	64	
79-00-5	1,1,2-Trichloroethane	ND	64	
75-35-4	1,1-Dichloroethylene	ND	64	
563-58-6	1,1-Dichloropropene	ND	64	
75-34-3	1,1-dichloroethane	ND	64	
87-61-6	1,2,3-Trichlorobenzene	ND	64	
96-18-4	1,2,3-Trichloropropane	ND	64	
120-82-1	1,2,4-Trichlorobenzene	ND	64	
95-63-6	1,2,4-Trimethylbenzene	ND	64	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	64	
106-93-4	1,2-Dibromoethane	ND	64	
95-50-1	1,2-Dichlorobenzene	ND	64	
107-06-2	1,2-Dichloroethane	ND	64	
78-87-5	1,2-Dichloropropane	ND	64	
108-67-8	1,3,5-Trimethylbenzene	ND	64	
541-73-1	1,3-Dichlorobenzene	ND	64	
142-28-9	1,3-Dichloropropane	ND	64	
106-46-7	1,4-Dichlorobenzene	ND	64	
594-20-7	2,2-Dichloropropane	ND	64	
78-93-3	2-Butanone (MEK)	ND	64	
95-49-8	2-Chlorotoluene	ND	64	
591-78-6	2-Hexanone	ND	64	
67-64-1	2-Propanone (acetone)	ND	64	
106-43-4	4-Chlorotoluene	ND	64	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	64	
107-13-1	Acrylonitrile	ND	64	
71-43-2	Benzene	ND	64	
108-86-1	Bromobenzene	ND	64	
74-97-5	Bromochloromethane	ND	64	
75-27-4	Bromodichloromethane	ND	64	
75-25-2	Bromoform	ND	64	
74-83-9	Bromomethane	ND	64	
75-15-0	Carbon Disulfide	ND	64	
56-23-5	Carbon tetrachloride	ND	64	
108-90-7	Chlorobenzene	ND	64	
75-00-3	Chloroethane	ND	64	
67-66-3	Chloroform	ND	64	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-69	Lab Sample ID:	AB32203
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	93%
Dry Weight Extracted:	8.241 grams	Extract Dilution:	50
Wet Weight Extracted:	8.861 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	64	
124-48-1	Dibromochloromethane	ND	64	
74-95-3	Dibromomethane	ND	64	
75-71-8	Dichlorodifluoromethane	ND	64	
60-29-7	Ethyl Ether	ND	64	
100-41-4	Ethylbenzene	ND	64	
87-68-3	Hexachlorobutadiene	ND	64	
98-82-8	Isopropylbenzene	ND	64	
108-38-3/106-42-	M/P Xylene	ND	130	
1634-04-4	Methyl-t-Butyl Ether	ND	64	
75-09-2	Methylene Chloride	ND	64	
104-51-8	N-Butylbenzene	ND	64	
103-65-1	N-Propylbenzene	ND	64	
91-20-3	Naphthalene	ND	64	
95-47-6	Ortho Xylene	ND	64	
99-87-6`	Para-Isopropyltoluene	ND	64	
135-98-8	Sec-Butylbenzene	ND	64	
100-42-5	Styrene	ND	64	
98-06-6	Tert-Butylbenzene	ND	64	
127-18-4	Tetrachloroethylene	ND	64	
109-99-9	Tetrahydrofuran	ND	64	
108-88-3	Toluene	ND	64	
156-60-5	Trans-1,2-Dichloroethylene	ND	64	
79-01-6	Trichloroethylene	ND	64	
75-69-4	Trichlorofluoromethane	ND	64	
108-05-4	Vinyl Acetate	ND	64	
75-01-4	Vinyl Chloride	ND	64	
10061-01-5	c-1,3-dichloropropene	ND	64	
156-59-2	cis-1,2-Dichloroethylene	ND	64	
10061-02-6	t-1,3-Dichloropropene	ND	64	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-70	Lab Sample ID:	AB32204
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	7.247 grams	Extract Dilution:	50
Wet Weight Extracted:	7.964 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	74	
71-55-6	1,1,1-Trichloroethane	ND	74	
79-34-5	1,1,2,2-Tetrachloroethane	ND	74	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	74	
79-00-5	1,1,2-Trichloroethane	ND	74	
75-35-4	1,1-Dichloroethylene	ND	74	
563-58-6	1,1-Dichloropropene	ND	74	
75-34-3	1,1-dichloroethane	ND	74	
87-61-6	1,2,3-Trichlorobenzene	ND	74	
96-18-4	1,2,3-Trichloropropane	ND	74	
120-82-1	1,2,4-Trichlorobenzene	ND	74	
95-63-6	1,2,4-Trimethylbenzene	ND	74	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	74	
106-93-4	1,2-Dibromoethane	ND	74	
95-50-1	1,2-Dichlorobenzene	ND	74	
107-06-2	1,2-Dichloroethane	ND	74	
78-87-5	1,2-Dichloropropane	ND	74	
108-67-8	1,3,5-Trimethylbenzene	ND	74	
541-73-1	1,3-Dichlorobenzene	ND	74	
142-28-9	1,3-Dichloropropane	ND	74	
106-46-7	1,4-Dichlorobenzene	ND	74	
594-20-7	2,2-Dichloropropane	ND	74	
78-93-3	2-Butanone (MEK)	ND	74	
95-49-8	2-Chlorotoluene	ND	74	
591-78-6	2-Hexanone	ND	74	
67-64-1	2-Propanone (acetone)	ND	74	
106-43-4	4-Chlorotoluene	ND	74	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	74	
107-13-1	Acrylonitrile	ND	74	
71-43-2	Benzene	ND	74	
108-86-1	Bromobenzene	ND	74	
74-97-5	Bromochloromethane	ND	74	
75-27-4	Bromodichloromethane	ND	74	
75-25-2	Bromoform	ND	74	
74-83-9	Bromomethane	ND	74	
75-15-0	Carbon Disulfide	ND	74	
56-23-5	Carbon tetrachloride	ND	74	
108-90-7	Chlorobenzene	ND	74	
75-00-3	Chloroethane	ND	74	
67-66-3	Chloroform	ND	74	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-70	Lab Sample ID:	AB32204
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	7.247 grams	Extract Dilution:	50
Wet Weight Extracted:	7.964 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	74	
124-48-1	Dibromochloromethane	ND	74	
74-95-3	Dibromomethane	ND	74	
75-71-8	Dichlorodifluoromethane	ND	74	
60-29-7	Ethyl Ether	ND	74	
100-41-4	Ethylbenzene	ND	74	
87-68-3	Hexachlorobutadiene	ND	74	
98-82-8	Isopropylbenzene	ND	74	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	74	
75-09-2	Methylene Chloride	ND	74	
104-51-8	N-Butylbenzene	ND	74	
103-65-1	N-Propylbenzene	ND	74	
91-20-3	Naphthalene	ND	74	
95-47-6	Ortho Xylene	ND	74	
99-87-6	Para-Isopropyltoluene	ND	74	
135-98-8	Sec-Butylbenzene	ND	74	
100-42-5	Styrene	ND	74	
98-06-6	Tert-Butylbenzene	ND	74	
127-18-4	Tetrachloroethylene	ND	74	
109-99-9	Tetrahydrofuran	ND	74	
108-88-3	Toluene	ND	74	
156-60-5	Trans-1,2-Dichloroethylene	ND	74	
79-01-6	Trichloroethylene	ND	74	
75-69-4	Trichlorofluoromethane	ND	74	
108-05-4	Vinyl Acetate	ND	74	
75-01-4	Vinyl Chloride	ND	74	
10061-01-5	c-1,3-dichloropropene	ND	74	
156-59-2	cis-1,2-Dichloroethylene	ND	74	
10061-02-6	t-1,3-Dichloropropene	ND	74	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	99	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-71	Lab Sample ID:	AB32205
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	6.966 grams	Extract Dilution:	50
Wet Weight Extracted:	7.655 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	77	
71-55-6	1,1,1-Trichloroethane	ND	77	
79-34-5	1,1,2,2-Tetrachloroethane	ND	77	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	77	
79-00-5	1,1,2-Trichloroethane	ND	77	
75-35-4	1,1-Dichloroethylene	ND	77	
563-58-6	1,1-Dichloropropene	ND	77	
75-34-3	1,1-dichloroethane	ND	77	
87-61-6	1,2,3-Trichlorobenzene	ND	77	
96-18-4	1,2,3-Trichloropropane	ND	77	
120-82-1	1,2,4-Trichlorobenzene	ND	77	
95-63-6	1,2,4-Trimethylbenzene	ND	77	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	77	
106-93-4	1,2-Dibromoethane	ND	77	
95-50-1	1,2-Dichlorobenzene	ND	77	
107-06-2	1,2-Dichloroethane	ND	77	
78-87-5	1,2-Dichloropropane	ND	77	
108-67-8	1,3,5-Trimethylbenzene	ND	77	
541-73-1	1,3-Dichlorobenzene	ND	77	
142-28-9	1,3-Dichloropropane	ND	77	
106-46-7	1,4-Dichlorobenzene	ND	77	
594-20-7	2,2-Dichloropropane	ND	77	
78-93-3	2-Butanone (MEK)	ND	77	
95-49-8	2-Chlorotoluene	ND	77	
591-78-6	2-Hexanone	ND	77	
67-64-1	2-Propanone (acetone)	ND	77	
106-43-4	4-Chlorotoluene	ND	77	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	77	
107-13-1	Acrylonitrile	ND	77	
71-43-2	Benzene	ND	77	
108-86-1	Bromobenzene	ND	77	
74-97-5	Bromochloromethane	ND	77	
75-27-4	Bromodichloromethane	ND	77	
75-25-2	Bromoform	ND	77	
74-83-9	Bromomethane	ND	77	
75-15-0	Carbon Disulfide	ND	77	
56-23-5	Carbon tetrachloride	ND	77	
108-90-7	Chlorobenzene	ND	77	
75-00-3	Chloroethane	ND	77	
67-66-3	Chloroform	ND	77	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-71	Lab Sample ID:	AB32205
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	6.966 grams	Extract Dilution:	50
Wet Weight Extracted:	7.655 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	77	
124-48-1	Dibromochloromethane	ND	77	
74-95-3	Dibromomethane	ND	77	
75-71-8	Dichlorodifluoromethane	ND	77	
60-29-7	Ethyl Ether	ND	77	
100-41-4	Ethylbenzene	ND	77	
87-68-3	Hexachlorobutadiene	ND	77	
98-82-8	Isopropylbenzene	ND	77	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	77	
75-09-2	Methylene Chloride	ND	77	
104-51-8	N-Butylbenzene	ND	77	
103-65-1	N-Propylbenzene	ND	77	
91-20-3	Naphthalene	**170**	77	
95-47-6	Ortho Xylene	ND	77	
99-87-6	Para-Isopropyltoluene	ND	77	
135-98-8	Sec-Butylbenzene	ND	77	
100-42-5	Styrene	ND	77	
98-06-6	Tert-Butylbenzene	ND	77	
127-18-4	Tetrachloroethylene	ND	77	
109-99-9	Tetrahydrofuran	ND	77	
108-88-3	Toluene	ND	77	
156-60-5	Trans-1,2-Dichloroethylene	ND	77	
79-01-6	Trichloroethylene	ND	77	
75-69-4	Trichlorofluoromethane	ND	77	
108-05-4	Vinyl Acetate	ND	77	
75-01-4	Vinyl Chloride	ND	77	
10061-01-5	c-1,3-dichloropropene	ND	77	
156-59-2	cis-1,2-Dichloroethylene	ND	77	
10061-02-6	t-1,3-Dichloropropene	ND	77	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	115	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-72	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	88%
Dry Weight Extracted:	6.645 grams	Extract Dilution:	50
Wet Weight Extracted:	7.551 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	82	
71-55-6	1,1,1-Trichloroethane	ND	82	
79-34-5	1,1,2,2-Tetrachloroethane	ND	82	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	82	
79-00-5	1,1,2-Trichloroethane	ND	82	
75-35-4	1,1-Dichloroethylene	ND	82	
563-58-6	1,1-Dichloropropene	ND	82	
75-34-3	1,1-dichloroethane	ND	82	
87-61-6	1,2,3-Trichlorobenzene	ND	82	
96-18-4	1,2,3-Trichloropropane	ND	82	
120-82-1	1,2,4-Trichlorobenzene	ND	82	
95-63-6	1,2,4-Trimethylbenzene	ND	82	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	82	
106-93-4	1,2-Dibromoethane	ND	82	
95-50-1	1,2-Dichlorobenzene	ND	82	
107-06-2	1,2-Dichloroethane	ND	82	
78-87-5	1,2-Dichloropropane	ND	82	
108-67-8	1,3,5-Trimethylbenzene	ND	82	
541-73-1	1,3-Dichlorobenzene	ND	82	
142-28-9	1,3-Dichloropropane	ND	82	
106-46-7	1,4-Dichlorobenzene	ND	82	
594-20-7	2,2-Dichloropropane	ND	82	
78-93-3	2-Butanone (MEK)	ND	82	
95-49-8	2-Chlorotoluene	ND	82	
591-78-6	2-Hexanone	ND	82	
67-64-1	2-Propanone (acetone)	ND	82	
106-43-4	4-Chlorotoluene	ND	82	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	82	
107-13-1	Acrylonitrile	ND	82	
71-43-2	Benzene	ND	82	
108-86-1	Bromobenzene	ND	82	
74-97-5	Bromochloromethane	ND	82	
75-27-4	Bromodichloromethane	ND	82	
75-25-2	Bromoform	ND	82	
74-83-9	Bromomethane	ND	82	
75-15-0	Carbon Disulfide	ND	82	
56-23-5	Carbon tetrachloride	ND	82	
108-90-7	Chlorobenzene	ND	82	
75-00-3	Chloroethane	ND	82	
67-66-3	Chloroform	ND	82	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-72	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	88%
Dry Weight Extracted:	6.645 grams	Extract Dilution:	50
Wet Weight Extracted:	7.551 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	82	
124-48-1	Dibromochloromethane	ND	82	
74-95-3	Dibromomethane	ND	82	
75-71-8	Dichlorodifluoromethane	ND	82	
60-29-7	Ethyl Ether	ND	82	
100-41-4	Ethylbenzene	ND	82	
87-68-3	Hexachlorobutadiene	ND	82	
98-82-8	Isopropylbenzene	ND	82	
108-38-3/106-42-	M/P Xylene	ND	160	
1634-04-4	Methyl-t-Butyl Ether	ND	82	
75-09-2	Methylene Chloride	ND	82	
104-51-8	N-Butylbenzene	ND	82	
103-65-1	N-Propylbenzene	ND	82	
91-20-3	Naphthalene	ND	82	
95-47-6	Ortho Xylene	ND	82	
99-87-6	Para-Isopropyltoluene	ND	82	
135-98-8	Sec-Butylbenzene	ND	82	
100-42-5	Styrene	ND	82	
98-06-6	Tert-Butylbenzene	ND	82	
127-18-4	Tetrachloroethylene	ND	82	
109-99-9	Tetrahydrofuran	ND	82	
108-88-3	Toluene	ND	82	
156-60-5	Trans-1,2-Dichloroethylene	ND	82	
79-01-6	Trichloroethylene	ND	82	
75-69-4	Trichlorofluoromethane	ND	82	
108-05-4	Vinyl Acetate	ND	82	
75-01-4	Vinyl Chloride	ND	82	
10061-01-5	c-1,3-dichloropropene	ND	82	
156-59-2	cis-1,2-Dichloroethylene	ND	82	
10061-02-6	t-1,3-Dichloropropene	ND	82	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	96	78 - 111
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-73	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	5.847 grams	Extract Dilution:	50
Wet Weight Extracted:	6.425 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	90	
71-55-6	1,1,1-Trichloroethane	ND	90	
79-34-5	1,1,2,2-Tetrachloroethane	ND	90	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	90	
79-00-5	1,1,2-Trichloroethane	ND	90	
75-35-4	1,1-Dichloroethylene	ND	90	
563-58-6	1,1-Dichloropropene	ND	90	
75-34-3	1,1-dichloroethane	ND	90	
87-61-6	1,2,3-Trichlorobenzene	ND	90	
96-18-4	1,2,3-Trichloropropane	ND	90	
120-82-1	1,2,4-Trichlorobenzene	ND	90	
95-63-6	1,2,4-Trimethylbenzene	ND	90	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	90	
106-93-4	1,2-Dibromoethane	ND	90	
95-50-1	1,2-Dichlorobenzene	ND	90	
107-06-2	1,2-Dichloroethane	ND	90	
78-87-5	1,2-Dichloropropane	ND	90	
108-67-8	1,3,5-Trimethylbenzene	ND	90	
541-73-1	1,3-Dichlorobenzene	ND	90	
142-28-9	1,3-Dichloropropane	ND	90	
106-46-7	1,4-Dichlorobenzene	ND	90	
594-20-7	2,2-Dichloropropane	ND	90	
78-93-3	2-Butanone (MEK)	ND	90	
95-49-8	2-Chlorotoluene	ND	90	
591-78-6	2-Hexanone	ND	90	
67-64-1	2-Propanone (acetone)	ND	90	
106-43-4	4-Chlorotoluene	ND	90	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	90	
107-13-1	Acrylonitrile	ND	90	
71-43-2	Benzene	ND	90	
108-86-1	Bromobenzene	ND	90	
74-97-5	Bromochloromethane	ND	90	
75-27-4	Bromodichloromethane	ND	90	
75-25-2	Bromoform	ND	90	
74-83-9	Bromomethane	ND	90	
75-15-0	Carbon Disulfide	ND	90	
56-23-5	Carbon tetrachloride	ND	90	
108-90-7	Chlorobenzene	ND	90	
75-00-3	Chloroethane	ND	90	
67-66-3	Chloroform	ND	90	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-73	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	91%
Dry Weight Extracted:	5.847 grams	Extract Dilution:	50
Wet Weight Extracted:	6.425 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	90	
124-48-1	Dibromochloromethane	ND	90	
74-95-3	Dibromomethane	ND	90	
75-71-8	Dichlorodifluoromethane	ND	90	
60-29-7	Ethyl Ether	ND	90	
100-41-4	Ethylbenzene	ND	90	
87-68-3	Hexachlorobutadiene	ND	90	
98-82-8	Isopropylbenzene	ND	90	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	90	
75-09-2	Methylene Chloride	ND	90	
104-51-8	N-Butylbenzene	ND	90	
103-65-1	N-Propylbenzene	ND	90	
91-20-3	Naphthalene	ND	90	
95-47-6	Ortho Xylene	ND	90	
99-87-6	Para-Isopropyltoluene	ND	90	
135-98-8	Sec-Butylbenzene	ND	90	
100-42-5	Styrene	ND	90	
98-06-6	Tert-Butylbenzene	ND	90	
127-18-4	Tetrachloroethylene	ND	90	
109-99-9	Tetrahydrofuran	ND	90	
108-88-3	Toluene	ND	90	
156-60-5	Trans-1,2-Dichloroethylene	ND	90	
79-01-6	Trichloroethylene	ND	90	
75-69-4	Trichlorofluoromethane	ND	90	
108-05-4	Vinyl Acetate	ND	90	
75-01-4	Vinyl Chloride	ND	90	
10061-01-5	c-1,3-dichloropropene	ND	90	
156-59-2	cis-1,2-Dichloroethylene	ND	90	
10061-02-6	t-1,3-Dichloropropene	ND	90	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-74	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	5.109 grams	Extract Dilution:	50
Wet Weight Extracted:	5.941 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	110	
71-55-6	1,1,1-Trichloroethane	ND	110	
79-34-5	1,1,2,2-Tetrachloroethane	ND	110	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	110	
79-00-5	1,1,2-Trichloroethane	ND	110	
75-35-4	1,1-Dichloroethylene	ND	110	
563-58-6	1,1-Dichloropropene	ND	110	
75-34-3	1,1-dichloroethane	ND	110	
87-61-6	1,2,3-Trichlorobenzene	ND	110	
96-18-4	1,2,3-Trichloropropane	ND	110	
120-82-1	1,2,4-Trichlorobenzene	ND	110	
95-63-6	1,2,4-Trimethylbenzene	ND	110	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	110	
106-93-4	1,2-Dibromoethane	ND	110	
95-50-1	1,2-Dichlorobenzene	ND	110	
107-06-2	1,2-Dichloroethane	ND	110	
78-87-5	1,2-Dichloropropane	ND	110	
108-67-8	1,3,5-Trimethylbenzene	ND	110	
541-73-1	1,3-Dichlorobenzene	ND	110	
142-28-9	1,3-Dichloropropane	ND	110	
106-46-7	1,4-Dichlorobenzene	ND	110	
594-20-7	2,2-Dichloropropane	ND	110	
78-93-3	2-Butanone (MEK)	ND	110	
95-49-8	2-Chlorotoluene	ND	110	
591-78-6	2-Hexanone	ND	110	
67-64-1	2-Propanone (acetone)	ND	110	
106-43-4	4-Chlorotoluene	ND	110	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	110	
107-13-1	Acrylonitrile	ND	110	
71-43-2	Benzene	ND	110	
108-86-1	Bromobenzene	ND	110	
74-97-5	Bromochloromethane	ND	110	
75-27-4	Bromodichloromethane	ND	110	
75-25-2	Bromoform	ND	110	
74-83-9	Bromomethane	ND	110	
75-15-0	Carbon Disulfide	ND	110	
56-23-5	Carbon tetrachloride	ND	110	
108-90-7	Chlorobenzene	ND	110	
75-00-3	Chloroethane	ND	110	
67-66-3	Chloroform	ND	110	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-74	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	86%
Dry Weight Extracted:	5.109 grams	Extract Dilution:	50
Wet Weight Extracted:	5.941 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	110	
124-48-1	Dibromochloromethane	ND	110	
74-95-3	Dibromomethane	ND	110	
75-71-8	Dichlorodifluoromethane	ND	110	
60-29-7	Ethyl Ether	ND	110	
100-41-4	Ethylbenzene	ND	110	
87-68-3	Hexachlorobutadiene	ND	110	
98-82-8	Isopropylbenzene	ND	110	
108-38-3/106-42-	M/P Xylene	ND	220	
1634-04-4	Methyl-t-Butyl Ether	ND	110	
75-09-2	Methylene Chloride	ND	110	
104-51-8	N-Butylbenzene	ND	110	
103-65-1	N-Propylbenzene	ND	110	
91-20-3	Naphthalene	ND	110	
95-47-6	Ortho Xylene	ND	110	
99-87-6	Para-Isopropyltoluene	ND	110	
135-98-8	Sec-Butylbenzene	ND	110	
100-42-5	Styrene	ND	110	
98-06-6	Tert-Butylbenzene	ND	110	
127-18-4	Tetrachloroethylene	ND	110	
109-99-9	Tetrahydrofuran	ND	110	
108-88-3	Toluene	ND	110	
156-60-5	Trans-1,2-Dichloroethylene	ND	110	
79-01-6	Trichloroethylene	ND	110	
75-69-4	Trichlorofluoromethane	ND	110	
108-05-4	Vinyl Acetate	ND	110	
75-01-4	Vinyl Chloride	ND	110	
10061-01-5	c-1,3-dichloropropene	ND	110	
156-59-2	cis-1,2-Dichloroethylene	ND	110	
10061-02-6	t-1,3-Dichloropropene	ND	110	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	95	78 - 111
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-78	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	87%
Dry Weight Extracted:	11.267 grams	Extract Dilution:	50
Wet Weight Extracted:	12.951 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	52	
71-55-6	1,1,1-Trichloroethane	ND	52	
79-34-5	1,1,2,2-Tetrachloroethane	ND	52	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	52	
79-00-5	1,1,2-Trichloroethane	ND	52	
75-35-4	1,1-Dichloroethylene	ND	52	
563-58-6	1,1-Dichloropropene	ND	52	
75-34-3	1,1-dichloroethane	ND	52	
87-61-6	1,2,3-Trichlorobenzene	ND	52	
96-18-4	1,2,3-Trichloropropane	ND	52	
120-82-1	1,2,4-Trichlorobenzene	ND	52	
95-63-6	1,2,4-Trimethylbenzene	ND	52	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	52	
106-93-4	1,2-Dibromoethane	ND	52	
95-50-1	1,2-Dichlorobenzene	ND	52	
107-06-2	1,2-Dichloroethane	ND	52	
78-87-5	1,2-Dichloropropane	ND	52	
108-67-8	1,3,5-Trimethylbenzene	ND	52	
541-73-1	1,3-Dichlorobenzene	ND	52	
142-28-9	1,3-Dichloropropane	ND	52	
106-46-7	1,4-Dichlorobenzene	ND	52	
594-20-7	2,2-Dichloropropane	ND	52	
78-93-3	2-Butanone (MEK)	ND	52	
95-49-8	2-Chlorotoluene	ND	52	
591-78-6	2-Hexanone	ND	52	
67-64-1	2-Propanone (acetone)	ND	52	
106-43-4	4-Chlorotoluene	ND	52	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	52	
107-13-1	Acrylonitrile	ND	52	
71-43-2	Benzene	ND	52	
108-86-1	Bromobenzene	ND	52	
74-97-5	Bromochloromethane	ND	52	
75-27-4	Bromodichloromethane	ND	52	
75-25-2	Bromoform	ND	52	
74-83-9	Bromomethane	ND	52	
75-15-0	Carbon Disulfide	ND	52	
56-23-5	Carbon tetrachloride	ND	52	
108-90-7	Chlorobenzene	ND	52	
75-00-3	Chloroethane	ND	52	
67-66-3	Chloroform	ND	52	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-78	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	87%
Dry Weight Extracted:	11.267 grams	Extract Dilution:	50
Wet Weight Extracted:	12.951 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	52	
124-48-1	Dibromochloromethane	ND	52	
74-95-3	Dibromomethane	ND	52	
75-71-8	Dichlorodifluoromethane	ND	52	
60-29-7	Ethyl Ether	ND	52	
100-41-4	Ethylbenzene	ND	52	
87-68-3	Hexachlorobutadiene	ND	52	
98-82-8	Isopropylbenzene	ND	52	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	52	
75-09-2	Methylene Chloride	ND	52	
104-51-8	N-Butylbenzene	ND	52	
103-65-1	N-Propylbenzene	ND	52	
91-20-3	Naphthalene	ND	52	
95-47-6	Ortho Xylene	ND	52	
99-87-6	Para-Isopropyltoluene	ND	52	
135-98-8	Sec-Butylbenzene	ND	52	
100-42-5	Styrene	ND	52	
98-06-6	Tert-Butylbenzene	ND	52	
127-18-4	Tetrachloroethylene	ND	52	
109-99-9	Tetrahydrofuran	ND	52	
108-88-3	Toluene	ND	52	
156-60-5	Trans-1,2-Dichloroethylene	ND	52	
79-01-6	Trichloroethylene	ND	52	
75-69-4	Trichlorofluoromethane	ND	52	
108-05-4	Vinyl Acetate	ND	52	
75-01-4	Vinyl Chloride	ND	52	
10061-01-5	c-1,3-dichloropropene	ND	52	
156-59-2	cis-1,2-Dichloroethylene	ND	52	
10061-02-6	t-1,3-Dichloropropene	ND	52	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	117	74 - 136
Toluene-D8	99	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-79	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	88%
Dry Weight Extracted:	9.864 grams	Extract Dilution:	50
Wet Weight Extracted:	11.209 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	58	
71-55-6	1,1,1-Trichloroethane	ND	58	
79-34-5	1,1,2,2-Tetrachloroethane	ND	58	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	58	
79-00-5	1,1,2-Trichloroethane	ND	58	
75-35-4	1,1-Dichloroethylene	ND	58	
563-58-6	1,1-Dichloropropene	ND	58	
75-34-3	1,1-dichloroethane	ND	58	
87-61-6	1,2,3-Trichlorobenzene	ND	58	
96-18-4	1,2,3-Trichloropropane	ND	58	
120-82-1	1,2,4-Trichlorobenzene	ND	58	
95-63-6	1,2,4-Trimethylbenzene	ND	58	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	58	
106-93-4	1,2-Dibromoethane	ND	58	
95-50-1	1,2-Dichlorobenzene	ND	58	
107-06-2	1,2-Dichloroethane	ND	58	
78-87-5	1,2-Dichloropropane	ND	58	
108-67-8	1,3,5-Trimethylbenzene	ND	58	
541-73-1	1,3-Dichlorobenzene	ND	58	
142-28-9	1,3-Dichloropropane	ND	58	
106-46-7	1,4-Dichlorobenzene	ND	58	
594-20-7	2,2-Dichloropropane	ND	58	
78-93-3	2-Butanone (MEK)	ND	58	
95-49-8	2-Chlorotoluene	ND	58	
591-78-6	2-Hexanone	ND	58	
67-64-1	2-Propanone (acetone)	ND	58	
106-43-4	4-Chlorotoluene	ND	58	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	58	
107-13-1	Acrylonitrile	ND	58	
71-43-2	Benzene	ND	58	
108-86-1	Bromobenzene	ND	58	
74-97-5	Bromochloromethane	ND	58	
75-27-4	Bromodichloromethane	ND	58	
75-25-2	Bromoform	ND	58	
74-83-9	Bromomethane	ND	58	
75-15-0	Carbon Disulfide	ND	58	
56-23-5	Carbon tetrachloride	ND	58	
108-90-7	Chlorobenzene	ND	58	
75-00-3	Chloroethane	ND	58	
67-66-3	Chloroform	ND	58	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-79	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/25/12	Volume Purged:	5 mL
Date of Analysis:	8/25/12	Percent Solids:	88%
Dry Weight Extracted:	9.864 grams	Extract Dilution:	50
Wet Weight Extracted:	11.209 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	58	
124-48-1	Dibromochloromethane	ND	58	
74-95-3	Dibromomethane	ND	58	
75-71-8	Dichlorodifluoromethane	ND	58	
60-29-7	Ethyl Ether	ND	58	
100-41-4	Ethylbenzene	ND	58	
87-68-3	Hexachlorobutadiene	ND	58	
98-82-8	Isopropylbenzene	ND	58	
108-38-3/106-42-	M/P Xylene	ND	120	
1634-04-4	Methyl-t-Butyl Ether	ND	58	
75-09-2	Methylene Chloride	ND	58	
104-51-8	N-Butylbenzene	ND	58	
103-65-1	N-Propylbenzene	ND	58	
91-20-3	Naphthalene	ND	58	
95-47-6	Ortho Xylene	ND	58	
99-87-6	Para-Isopropyltoluene	ND	58	
135-98-8	Sec-Butylbenzene	ND	58	
100-42-5	Styrene	ND	58	
98-06-6	Tert-Butylbenzene	ND	58	
127-18-4	Tetrachloroethylene	ND	58	
109-99-9	Tetrahydrofuran	ND	58	
108-88-3	Toluene	ND	58	
156-60-5	Trans-1,2-Dichloroethylene	ND	58	
79-01-6	Trichloroethylene	ND	58	
75-69-4	Trichlorofluoromethane	ND	58	
108-05-4	Vinyl Acetate	ND	58	
75-01-4	Vinyl Chloride	ND	58	
10061-01-5	c-1,3-dichloropropene	ND	58	
156-59-2	cis-1,2-Dichloroethylene	ND	58	
10061-02-6	t-1,3-Dichloropropene	ND	58	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	94	78 - 111
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	98	85 - 118

Comments:

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32180

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,612	ND	1600	99	74 - 124
1,1,1-Trichloroethane	1,612	ND	1700	110	76 - 132
1,1,2,2-Tetrachloroethane	1,612	ND	1500	93	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,612	ND	1600	99	68 - 144
1,1,2-Trichloroethane	1,612	ND	1600	99	75 - 126
1,1-Dichloroethylene	1,612	ND	1600	99	65 - 140
1,1-Dichloropropene	1,612	ND	1600	99	81 - 125
1,1-dichloroethane	1,612	ND	1600	99	77 - 130
1,2,3-Trichlorobenzene	1,612	ND	1600	99	64 - 125
1,2,3-Trichloropropane	1,612	ND	1500	93	68 - 122
1,2,4-Trichlorobenzene	1,612	ND	1600	99	72 - 120
1,2,4-Trimethylbenzene	1,612	ND	1600	99	81 - 125
1,2-Dibromo-3-Chloropropane	1,612	ND	1400	87	54 - 125
1,2-Dibromoethane	1,612	ND	1600	99	73 - 124
1,2-Dichlorobenzene	1,612	ND	1600	99	81 - 116
1,2-Dichloroethane	1,612	ND	1600	99	74 - 130
1,2-Dichloropropane	1,612	ND	1600	99	78 - 120
1,3,5-Trimethylbenzene	1,612	ND	1600	99	81 - 125
1,3-Dichlorobenzene	1,612	ND	1600	99	82 - 117
1,3-Dichloropropane	1,612	ND	1500	93	76 - 123
1,4-Dichlorobenzene	1,612	ND	1500	93	80 - 116
2,2-Dichloropropane	1,612	ND	1600	99	57 - 147
2-Butanone (MEK)	1,612	ND	1600	99	41 - 151
2-Chlorotoluene	1,612	ND	1500	93	82 - 119
2-Hexanone	1,612	ND	1500	93	51 - 148
2-Propanone (acetone)	1,612	ND	1600	99	25 - 161
4-Chlorotoluene	1,612	ND	1600	99	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,612	ND	1600	99	62 - 130
Acrylonitrile	1,612	ND	1700	110	67 - 130
Benzene	1,612	ND	1600	99	82 - 124
Bromobenzene	1,612	ND	1500	93	79 - 119
Bromochloromethane	1,612	ND	1700	110	79 - 125
Bromodichloromethane	1,612	ND	1500	93	71 - 126
Bromoform	1,612	ND	1400	87	56 - 119
Bromomethane	1,612	ND	1700	110	37 - 161
Carbon Disulfide	1,612	ND	1600	99	63 - 134
Carbon tetrachloride	1,612	ND	1600	99	68 - 136
Chlorobenzene	1,612	ND	1500	93	82 - 126
Chloroethane	1,612	ND	1700	110	57 - 148
Chloroform	1,612	ND	1700	110	78 - 130
Chloromethane	1,612	ND	1500	93	56 - 147
Dibromochloromethane	1,612	ND	1600	99	62 - 131
Dibromomethane	1,612	ND	1600	99	75 - 122
Dichlorodifluoromethane	1,612	ND	1300	81	59 - 131
Ethyl Ether	1,612	ND	1800	110	65 - 138
Ethylbenzene	1,612	ND	1600	99	82 - 122
Hexachlorobutadiene	1,612	ND	1600	99	70 - 130
Isopropylbenzene	1,612	ND	1600	99	82 - 125

M/P Xylene	3,224	ND	3200	99	85 - 120
Methyl-t-Butyl Ether	1,612	ND	1600	99	74 - 125
Methylene Chloride	1,612	ND	1700	110	67 - 139
N-Butylbenzene	1,612	ND	1600	99	80 - 129
N-Propylbenzene	1,612	ND	1600	99	81 - 122
Naphthalene	1,612	ND	1500	93	59 - 129
Ortho Xylene	1,612	ND	1600	99	84 - 122
Para-Isopropyltoluene	1,612	ND	1600	99	79 - 129
Sec-Butylbenzene	1,612	ND	1600	99	81 - 126
Styrene	1,612	ND	1600	99	82 - 125
Tert-Butylbenzene	1,612	ND	1600	99	81 - 126
Tetrachloroethylene	1,612	ND	1600	99	74 - 133
Tetrahydrofuran	1,612	ND	1600	99	60 - 132
Toluene	1,612	ND	1600	99	82 - 124
Trans-1,2-Dichloroethylene	1,612	ND	1600	99	79 - 127
Trichloroethylene	1,612	ND	1600	99	76 - 124
Trichlorofluoromethane	1,612	ND	1700	110	65 - 144
Vinyl Acetate	1,612	ND	1500	93	14 - 152
Vinyl Chloride	1,612	ND	1500	93	34 - 142
c-1,3-dichloropropene	1,612	ND	1600	99	68 - 133
cis-1,2-Dichloroethylene	1,612	ND	1600	99	79 - 131
t-1,3-Dichloropropene	1,612	ND	1600	99	65 - 126

Comments:

Sample ID: AB32180

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,612	1600	99	0	40
1,1,1-Trichloroethane	1,612	1700	110	0	40
1,1,2,2-Tetrachloroethane	1,612	1500	93	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,612	1700	110	11	40
1,1,2-Trichloroethane	1,612	1600	99	0	40
1,1-Dichloroethylene	1,612	1700	110	11	52
1,1-Dichloropropene	1,612	1700	110	11	40
1,1-dichloroethane	1,612	1700	110	11	40
1,2,3-Trichlorobenzene	1,612	1600	99	0	40
1,2,3-Trichloropropane	1,612	1500	93	0	40
1,2,4-Trichlorobenzene	1,612	1600	99	0	40
1,2,4-Trimethylbenzene	1,612	1700	110	11	40
1,2-Dibromo-3-Chloropropane	1,612	1400	87	0	40
1,2-Dibromoethane	1,612	1600	99	0	40
1,2-Dichlorobenzene	1,612	1600	99	0	40
1,2-Dichloroethane	1,612	1700	110	11	40
1,2-Dichloropropane	1,612	1700	110	11	40
1,3,5-Trimethylbenzene	1,612	1700	110	11	40
1,3-Dichlorobenzene	1,612	1600	99	0	40
1,3-Dichloropropane	1,612	1500	93	0	40
1,4-Dichlorobenzene	1,612	1500	93	0	40
2,2-Dichloropropane	1,612	1700	110	11	40
2-Butanone (MEK)	1,612	1500	93	6	40
2-Chlorotoluene	1,612	1600	99	6	40
2-Hexanone	1,612	1500	93	0	40
2-Propanone (acetone)	1,612	1600	99	0	40
4-Chlorotoluene	1,612	1600	99	0	40
4-Methyl-2-Pentanone(MIBK)	1,612	1600	99	0	40
Acrylonitrile	1,612	1700	110	0	40
Benzene	1,612	1600	99	0	24
Bromobenzene	1,612	1600	99	6	40
Bromochloromethane	1,612	1600	99	11	40
Bromodichloromethane	1,612	1600	99	6	40
Bromoform	1,612	1400	87	0	40
Bromomethane	1,612	1700	110	0	40
Carbon Disulfide	1,612	1600	99	0	40
Carbon tetrachloride	1,612	1700	110	11	40
Chlorobenzene	1,612	1500	93	0	34
Chloroethane	1,612	1800	110	0	40
Chloroform	1,612	1700	110	0	40
Chloromethane	1,612	1500	93	0	40
Dibromochloromethane	1,612	1600	99	0	40
Dibromomethane	1,612	1600	99	0	40
Dichlorodifluoromethane	1,612	1300	81	0	40
Ethyl Ether	1,612	1700	110	0	40
Ethylbenzene	1,612	1600	99	0	40
Hexachlorobutadiene	1,612	1700	110	11	40
Isopropylbenzene	1,612	1600	99	0	40
M/P Xylene	3,224	3200	99	0	40
Methyl-t-Butyl Ether	1,612	1700	110	11	40
Methylene Chloride	1,612	1800	110	0	40
N-Butylbenzene	1,612	1700	110	11	40
N-Propylbenzene	1,612	1600	99	0	40

Naphthalene	1,612	1500	93	0	40
Ortho Xylene	1,612	1600	99	0	40
Para-Isopropyltoluene	1,612	1700	110	11	40
Sec-Butylbenzene	1,612	1700	110	11	40
Styrene	1,612	1600	99	0	40
Tert-Butylbenzene	1,612	1700	110	11	40
Tetrachloroethylene	1,612	1700	110	11	40
Tetrahydrofuran	1,612	1600	99	0	40
Toluene	1,612	1600	99	0	33
Trans-1,2-Dichloroethylene	1,612	1700	110	11	40
Trichloroethylene	1,612	1600	99	0	27
Trichlorofluoromethane	1,612	1700	110	0	40
Vinyl Acetate	1,612	1500	93	0	40
Vinyl Chloride	1,612	1600	99	6	40
c-1,3-dichloropropene	1,612	1600	99	0	40
cis-1,2-Dichloroethylene	1,612	1700	110	11	40
t-1,3-Dichloropropene	1,612	1600	99	0	40

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32180

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	19.9	100	77 - 122
1,1,1-Trichloroethane	20	19.8	99	80 - 128
1,1,2,2-Tetrachloroethane	20	19.3	97	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	18.8	94	59 - 146
1,1,2-Trichloroethane	20	19.6	98	79 - 117
1,1-Dichloroethylene	20	18.5	93	70 - 130
1,1-Dichloropropene	20	18.7	94	79 - 123
1,1-dichloroethane	20	19.5	98	81 - 122
1,2,3-Trichlorobenzene	20	18.5	93	70 - 119
1,2,3-Trichloropropane	20	18.6	93	73 - 114
1,2,4-Trichlorobenzene	20	19.1	96	74 - 120
1,2,4-Trimethylbenzene	20	19.6	98	79 - 123
1,2-Dibromo-3-Chloropropane	20	16.6	83	63 - 124
1,2-Dibromoethane	20	19.1	96	79 - 116
1,2-Dichlorobenzene	20	19.0	95	77 - 117
1,2-Dichloroethane	20	20.0	100	75 - 124
1,2-Dichloropropane	20	18.9	95	80 - 117
1,3,5-Trimethylbenzene	20	19.5	98	80 - 122
1,3-Dichlorobenzene	20	19.1	96	78 - 117
1,3-Dichloropropane	20	18.3	92	79 - 116
1,4-Dichlorobenzene	20	18.6	93	77 - 115
2,2-Dichloropropane	20	20.0	100	64 - 152
2-Butanone (MEK)	20	19.4	97	55 - 144
2-Chlorotoluene	20	19.0	95	79 - 119
2-Hexanone	20	20.3	102	58 - 147
2-Propanone (acetone)	20	21.1	106	37 - 168
4-Chlorotoluene	20	19.1	96	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	20.5	103	68 - 125
Acrylonitrile	20	20.8	104	68 - 124
Benzene	20	19.3	97	80 - 120
Bromobenzene	20	19.3	97	80 - 115
Bromochloromethane	20	19.1	96	81 - 120
Bromodichloromethane	20	19.5	98	77 - 125
Bromoform	20	18.8	94	62 - 127
Bromomethane	20	19.8	99	60 - 139
Carbon Disulfide	20	19.2	96	73 - 129
Carbon tetrachloride	20	20.6	103	73 - 136
Chlorobenzene	20	18.8	94	82 - 119
Chloroethane	20	19.7	99	69 - 130
Chloroform	20	20.0	100	80 - 122
Chloromethane	20	18.6	93	65 - 129
Dibromochloromethane	20	21.1	106	71 - 129
Dibromomethane	20	18.7	94	79 - 115
Dichlorodifluoromethane	20	16.4	82	69 - 126
Ethyl Ether	20	20.6	103	69 - 127
Ethylbenzene	20	19.6	98	80 - 121
Hexachlorobutadiene	20	18.7	94	72 - 124
Isopropylbenzene	20	19.4	97	79 - 124
M/P Xylene	40	39.6	99	81 - 120
Methyl-t-Butyl Ether	20	19.4	97	78 - 120
Methylene Chloride	20	20.0	100	73 - 129
N-Butylbenzene	20	19.7	99	78 - 126

N-Propylbenzene	20	19.3	97	78 - 122
Naphthalene	20	17.3	87	66 - 124
Ortho Xylene	20	19.8	99	81 - 121
Para-Isopropyltoluene	20	19.8	99	77 - 127
Sec-Butylbenzene	20	19.6	98	79 - 124
Styrene	20	19.8	99	82 - 122
Tert-Butylbenzene	20	19.6	98	78 - 124
Tetrachloroethylene	20	19.2	96	77 - 118
Tetrahydrofuran	20	19.6	98	67 - 124
Toluene	20	19.4	97	81 - 120
Trans-1,2-Dichloroethylene	20	19.3	97	80 - 121
Trichloroethylene	20	18.8	94	80 - 117
Trichlorofluoromethane	20	20.0	100	68 - 137
Vinyl Acetate	20	18.5	93	25 - 150
Vinyl Chloride	20	20.1	101	67 - 134
c-1,3-dichloropropene	20	20.3	102	73 - 133
cis-1,2-Dichloroethylene	20	19.2	96	82 - 122
t-1,3-Dichloropropene	20	20.9	105	69 - 127

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20.2	101	2	50
1,1,1-Trichloroethane	20.5	103	4	50
1,1,2,2-Tetrachloroethane	19.3	97	0	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20.8	104	10	50
1,1,2-Trichloroethane	19.3	97	2	50
1,1-Dichloroethylene	19.9	100	7	52
1,1-Dichloropropene	19.6	98	5	50
1,1-dichloroethane	19.9	100	2	50
1,2,3-Trichlorobenzene	19.1	96	3	50
1,2,3-Trichloropropane	18.6	93	0	50
1,2,4-Trichlorobenzene	19.4	97	2	50
1,2,4-Trimethylbenzene	19.9	100	2	50
1,2-Dibromo-3-Chloropropane	17.5	88	5	50
1,2-Dibromoethane	19.3	97	1	50
1,2-Dichlorobenzene	19.2	96	1	50
1,2-Dichloroethane	20.0	100	0	50
1,2-Dichloropropane	19.6	98	4	50
1,3,5-Trimethylbenzene	19.7	99	1	50
1,3-Dichlorobenzene	19.0	95	1	50
1,3-Dichloropropane	19.3	97	5	50
1,4-Dichlorobenzene	18.9	95	2	50
2,2-Dichloropropane	20.6	103	3	50
2-Butanone (MEK)	20.3	102	5	50
2-Chlorotoluene	19.1	96	1	50
2-Hexanone	21.0	105	3	50
2-Propanone (acetone)	21.1	106	0	50
4-Chlorotoluene	19.4	97	2	50
4-Methyl-2-Pentanone(MIBK)	20.7	104	1	50
Acrylonitrile	20.6	103	1	50
Benzene	19.6	98	2	50
Bromobenzene	19.2	96	1	50
Bromochloromethane	19.8	99	4	50
Bromodichloromethane	19.3	97	1	50
Bromoform	19.2	96	2	50
Bromomethane	20.8	104	5	50
Carbon Disulfide	19.7	99	3	50
Carbon tetrachloride	20.8	104	1	50
Chlorobenzene	18.6	93	1	34
Chloroethane	20.5	103	4	50
Chloroform	20.7	104	3	50
Chloromethane	19.0	95	2	50
Dibromochloromethane	20.0	100	5	50
Dibromomethane	19.5	98	4	50
Dichlorodifluoromethane	17.2	86	5	50
Ethyl Ether	20.7	104	1	50
Ethylbenzene	19.9	100	2	50
Hexachlorobutadiene	19.1	96	2	50
Isopropylbenzene	19.8	99	2	50
M/P Xylene	39.9	100	1	50
Methyl-t-Butyl Ether	20.4	102	5	50
Methylene Chloride	20.7	104	3	50
N-Butylbenzene	20.2	101	3	50
N-Propylbenzene	19.7	99	2	50
Naphthalene	17.8	89	3	50
Ortho Xylene	20.2	101	2	50

Para-Isopropyltoluene	20.2	101	2	50
Sec-Butylbenzene	20.1	101	3	50
Styrene	19.6	98	1	50
Tert-Butylbenzene	19.7	99	1	50
Tetrachloroethylene	19.3	97	1	50
Tetrahydrofuran	19.5	98	1	50
Toluene	19.5	98	1	50
Trans-1,2-Dichloroethylene	19.9	100	3	50
Trichloroethylene	19.4	97	3	27
Trichlorofluoromethane	20.4	102	2	50
Vinyl Acetate	19.2	96	4	50
Vinyl Chloride	20.8	104	3	50
c-1,3-dichloropropene	20.2	101	1	50
cis-1,2-Dichloroethylene	19.9	100	4	50
t-1,3-Dichloropropene	20.8	104	1	50

Samples in Batch: AB32180, AB32181, AB32182, AB32183, AB32184, AB32185, AB32191, AB32192, AB32193, AB32200, AB32201, AB32202, AB32203, AB32204, AB32205, AB32206, AB32207, AB32208, AB32209, AB32210

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	~~12060001-0046~~	~~SS-17B~~	~~METALS ICP~~	~~SOIL~~	~~8/21/2012~~	~~11:23~~	~~1~~	~~NONE~~	~~N~~
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 15 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

August 30, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080055
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: VOAs in Soil High Level Method
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar preconcentrator and an Archon auto-sampler. The analysis SOP is based on US EPA Method 8260B, revision 2.0, 1996 and Method 5035A, draft revision 1, 2002, from SW-846.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.30 10:45:50 -04'00'

Qualifiers:	RL = Reporting limit
	ND = Not Detected above Reporting limit
	NA = Not Applicable due to high sample dilutions or sample interferences
	NC = Not calculated since analyte concentration is ND.
	J = Estimated value
	E = Estimated value exceeds the calibration range
	L = Estimated value is below the calibration range
	B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
	R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	6.052 grams	Extract Dilution:	50
Wet Weight Extracted:	7.661 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	96	
71-55-6	1,1,1-Trichloroethane	ND	96	
79-34-5	1,1,2,2-Tetrachloroethane	ND	96	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	96	
79-00-5	1,1,2-Trichloroethane	ND	96	
75-35-4	1,1-Dichloroethylene	ND	96	
563-58-6	1,1-Dichloropropene	ND	96	
75-34-3	1,1-dichloroethane	ND	96	
87-61-6	1,2,3-Trichlorobenzene	ND	96	
96-18-4	1,2,3-Trichloropropane	ND	96	
120-82-1	1,2,4-Trichlorobenzene	ND	96	
95-63-6	1,2,4-Trimethylbenzene	ND	96	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	96	
106-93-4	1,2-Dibromoethane	ND	96	
95-50-1	1,2-Dichlorobenzene	ND	96	
107-06-2	1,2-Dichloroethane	ND	96	
78-87-5	1,2-Dichloropropane	ND	96	
108-67-8	1,3,5-Trimethylbenzene	ND	96	
541-73-1	1,3-Dichlorobenzene	ND	96	
142-28-9	1,3-Dichloropropane	ND	96	
106-46-7	1,4-Dichlorobenzene	ND	96	
594-20-7	2,2-Dichloropropane	ND	96	
78-93-3	2-Butanone (MEK)	ND	96	
95-49-8	2-Chlorotoluene	ND	96	
591-78-6	2-Hexanone	ND	96	
67-64-1	2-Propanone (acetone)	ND	96	
106-43-4	4-Chlorotoluene	ND	96	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	96	
107-13-1	Acrylonitrile	ND	96	
71-43-2	Benzene	ND	96	
108-86-1	Bromobenzene	ND	96	
74-97-5	Bromochloromethane	ND	96	
75-27-4	Bromodichloromethane	ND	96	
75-25-2	Bromoform	ND	96	
74-83-9	Bromomethane	ND	96	
75-15-0	Carbon Disulfide	ND	96	
56-23-5	Carbon tetrachloride	ND	96	
108-90-7	Chlorobenzene	ND	96	
75-00-3	Chloroethane	ND	96	
67-66-3	Chloroform	ND	96	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	6.052 grams	Extract Dilution:	50
Wet Weight Extracted:	7.661 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	96	
124-48-1	Dibromochloromethane	ND	96	
74-95-3	Dibromomethane	ND	96	
75-71-8	Dichlorodifluoromethane	ND	96	
60-29-7	Ethyl Ether	ND	96	
100-41-4	Ethylbenzene	ND	96	
87-68-3	Hexachlorobutadiene	ND	96	
98-82-8	Isopropylbenzene	ND	96	
108-38-3/106-42-	M/P Xylene	ND	190	
1634-04-4	Methyl-t-Butyl Ether	ND	96	
75-09-2	Methylene Chloride	ND	96	
104-51-8	N-Butylbenzene	ND	96	
103-65-1	N-Propylbenzene	ND	96	
91-20-3	Naphthalene	ND	96	
95-47-6	Ortho Xylene	ND	96	
99-87-6	Para-Isopropyltoluene	ND	96	
135-98-8	Sec-Butylbenzene	ND	96	
100-42-5	Styrene	ND	96	
98-06-6	Tert-Butylbenzene	ND	96	
127-18-4	Tetrachloroethylene	ND	96	
109-99-9	Tetrahydrofuran	ND	96	
108-88-3	Toluene	ND	96	
156-60-5	Trans-1,2-Dichloroethylene	ND	96	
79-01-6	Trichloroethylene	ND	96	
75-69-4	Trichlorofluoromethane	ND	96	
108-05-4	Vinyl Acetate	ND	96	
75-01-4	Vinyl Chloride	ND	96	
10061-01-5	c-1,3-dichloropropene	ND	96	
156-59-2	cis-1,2-Dichloroethylene	ND	96	
10061-02-6	t-1,3-Dichloropropene	ND	96	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1.2-Dichloroethane-D4	109	74 - 136
Toluene-D8	101	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier

Comments: Laboratory blank is reported in ug/L.

Laboratory blankk is associated with sample(s) AB32221 (MS/MS and Duplicate Studies), AB32234, and AB32235,

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	73%
Dry Weight Extracted:	7.159 grams	Extract Dilution:	50
Wet Weight Extracted:	9.845 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	89	
71-55-6	1,1,1-Trichloroethane	ND	89	
79-34-5	1,1,2,2-Tetrachloroethane	ND	89	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	89	
79-00-5	1,1,2-Trichloroethane	ND	89	
75-35-4	1,1-Dichloroethylene	ND	89	
563-58-6	1,1-Dichloropropene	ND	89	
75-34-3	1,1-dichloroethane	ND	89	
87-61-6	1,2,3-Trichlorobenzene	ND	89	
96-18-4	1,2,3-Trichloropropane	ND	89	
120-82-1	1,2,4-Trichlorobenzene	ND	89	
95-63-6	1,2,4-Trimethylbenzene	ND	89	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	89	
106-93-4	1,2-Dibromoethane	ND	89	
95-50-1	1,2-Dichlorobenzene	ND	89	
107-06-2	1,2-Dichloroethane	ND	89	
78-87-5	1,2-Dichloropropane	ND	89	
108-67-8	1,3,5-Trimethylbenzene	ND	89	
541-73-1	1,3-Dichlorobenzene	ND	89	
142-28-9	1,3-Dichloropropane	ND	89	
106-46-7	1,4-Dichlorobenzene	ND	89	
594-20-7	2,2-Dichloropropane	ND	89	
78-93-3	2-Butanone (MEK)	ND	89	
95-49-8	2-Chlorotoluene	ND	89	
591-78-6	2-Hexanone	ND	89	
67-64-1	2-Propanone (acetone)	ND	89	
106-43-4	4-Chlorotoluene	ND	89	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	89	
107-13-1	Acrylonitrile	ND	89	
71-43-2	Benzene	ND	89	
108-86-1	Bromobenzene	ND	89	
74-97-5	Bromochloromethane	ND	89	
75-27-4	Bromodichloromethane	ND	89	
75-25-2	Bromoform	ND	89	
74-83-9	Bromomethane	ND	89	
75-15-0	Carbon Disulfide	ND	89	
56-23-5	Carbon tetrachloride	ND	89	
108-90-7	Chlorobenzene	ND	89	
75-00-3	Chloroethane	ND	89	
67-66-3	Chloroform	ND	89	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	73%
Dry Weight Extracted:	7.159 grams	Extract Dilution:	50
Wet Weight Extracted:	9.845 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	89	
124-48-1	Dibromochloromethane	ND	89	
74-95-3	Dibromomethane	ND	89	
75-71-8	Dichlorodifluoromethane	ND	89	
60-29-7	Ethyl Ether	ND	89	
100-41-4	Ethylbenzene	ND	89	
87-68-3	Hexachlorobutadiene	ND	89	
98-82-8	Isopropylbenzene	ND	89	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	89	
75-09-2	Methylene Chloride	ND	89	
104-51-8	N-Butylbenzene	ND	89	
103-65-1	N-Propylbenzene	ND	89	
91-20-3	Naphthalene	ND	89	
95-47-6	Ortho Xylene	ND	89	
99-87-6	Para-Isopropyltoluene	ND	89	
135-98-8	Sec-Butylbenzene	ND	89	
100-42-5	Styrene	ND	89	
98-06-6	Tert-Butylbenzene	ND	89	
127-18-4	Tetrachloroethylene	ND	89	
109-99-9	Tetrahydrofuran	ND	89	
108-88-3	Toluene	ND	89	
156-60-5	Trans-1,2-Dichloroethylene	ND	89	
79-01-6	Trichloroethylene	ND	89	
75-69-4	Trichlorofluoromethane	ND	89	
108-05-4	Vinyl Acetate	ND	89	
75-01-4	Vinyl Chloride	ND	89	
10061-01-5	c-1,3-dichloropropene	ND	89	
156-59-2	cis-1,2-Dichloroethylene	ND	89	
10061-02-6	t-1,3-Dichloropropene	ND	89	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	98	85 - 118

Comments:

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	95	78 - 111

Comments: Laboratory blank is reported in ug/L.

Laboratory blank is associated with sample(s) AB32222 - AB32227, and AB32236.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	80%
Dry Weight Extracted:	6.521 grams	Extract Dilution:	50
Wet Weight Extracted:	8.147 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	89	
71-55-6	1,1,1-Trichloroethane	ND	89	
79-34-5	1,1,2,2-Tetrachloroethane	ND	89	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	89	
79-00-5	1,1,2-Trichloroethane	ND	89	
75-35-4	1,1-Dichloroethylene	ND	89	
563-58-6	1,1-Dichloropropene	ND	89	
75-34-3	1,1-dichloroethane	ND	89	
87-61-6	1,2,3-Trichlorobenzene	ND	89	
96-18-4	1,2,3-Trichloropropane	ND	89	
120-82-1	1,2,4-Trichlorobenzene	ND	89	
95-63-6	1,2,4-Trimethylbenzene	ND	89	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	89	
106-93-4	1,2-Dibromoethane	ND	89	
95-50-1	1,2-Dichlorobenzene	ND	89	
107-06-2	1,2-Dichloroethane	ND	89	
78-87-5	1,2-Dichloropropane	ND	89	
108-67-8	1,3,5-Trimethylbenzene	ND	89	
541-73-1	1,3-Dichlorobenzene	ND	89	
142-28-9	1,3-Dichloropropane	ND	89	
106-46-7	1,4-Dichlorobenzene	ND	89	
594-20-7	2,2-Dichloropropane	ND	89	
78-93-3	2-Butanone (MEK)	ND	89	
95-49-8	2-Chlorotoluene	ND	89	
591-78-6	2-Hexanone	ND	89	
67-64-1	2-Propanone (acetone)	ND	89	
106-43-4	4-Chlorotoluene	ND	89	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	89	
107-13-1	Acrylonitrile	ND	89	
71-43-2	Benzene	ND	89	
108-86-1	Bromobenzene	ND	89	
74-97-5	Bromochloromethane	ND	89	
75-27-4	Bromodichloromethane	ND	89	
75-25-2	Bromoform	ND	89	
74-83-9	Bromomethane	ND	89	
75-15-0	Carbon Disulfide	ND	89	
56-23-5	Carbon tetrachloride	ND	89	
108-90-7	Chlorobenzene	ND	89	
75-00-3	Chloroethane	ND	89	
67-66-3	Chloroform	ND	89	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	80%
Dry Weight Extracted:	6.521 grams	Extract Dilution:	50
Wet Weight Extracted:	8.147 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	89	
124-48-1	Dibromochloromethane	ND	89	
74-95-3	Dibromomethane	ND	89	
75-71-8	Dichlorodifluoromethane	ND	89	
60-29-7	Ethyl Ether	ND	89	
100-41-4	Ethylbenzene	ND	89	
87-68-3	Hexachlorobutadiene	ND	89	
98-82-8	Isopropylbenzene	ND	89	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	89	
75-09-2	Methylene Chloride	ND	89	
104-51-8	N-Butylbenzene	ND	89	
103-65-1	N-Propylbenzene	ND	89	
91-20-3	Naphthalene	ND	89	
95-47-6	Ortho Xylene	ND	89	
99-87-6	Para-Isopropyltoluene	ND	89	
135-98-8	Sec-Butylbenzene	ND	89	
100-42-5	Styrene	ND	89	
98-06-6	Tert-Butylbenzene	ND	89	
127-18-4	Tetrachloroethylene	ND	89	
109-99-9	Tetrahydrofuran	ND	89	
108-88-3	Toluene	ND	89	
156-60-5	Trans-1,2-Dichloroethylene	ND	89	
79-01-6	Trichloroethylene	ND	89	
75-69-4	Trichlorofluoromethane	ND	89	
108-05-4	Vinyl Acetate	ND	89	
75-01-4	Vinyl Chloride	ND	89	
10061-01-5	c-1,3-dichloropropene	ND	89	
156-59-2	cis-1,2-Dichloroethylene	ND	89	
10061-02-6	t-1,3-Dichloropropene	ND	89	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	6.207 grams	Extract Dilution:	50
Wet Weight Extracted:	7.604 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	92	
71-55-6	1,1,1-Trichloroethane	ND	92	
79-34-5	1,1,2,2-Tetrachloroethane	ND	92	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	92	
79-00-5	1,1,2-Trichloroethane	ND	92	
75-35-4	1,1-Dichloroethylene	ND	92	
563-58-6	1,1-Dichloropropene	ND	92	
75-34-3	1,1-dichloroethane	ND	92	
87-61-6	1,2,3-Trichlorobenzene	ND	92	
96-18-4	1,2,3-Trichloropropane	ND	92	
120-82-1	1,2,4-Trichlorobenzene	ND	92	
95-63-6	1,2,4-Trimethylbenzene	ND	92	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	92	
106-93-4	1,2-Dibromoethane	ND	92	
95-50-1	1,2-Dichlorobenzene	ND	92	
107-06-2	1,2-Dichloroethane	ND	92	
78-87-5	1,2-Dichloropropane	ND	92	
108-67-8	1,3,5-Trimethylbenzene	ND	92	
541-73-1	1,3-Dichlorobenzene	ND	92	
142-28-9	1,3-Dichloropropane	ND	92	
106-46-7	1,4-Dichlorobenzene	ND	92	
594-20-7	2,2-Dichloropropane	ND	92	
78-93-3	2-Butanone (MEK)	ND	92	
95-49-8	2-Chlorotoluene	ND	92	
591-78-6	2-Hexanone	ND	92	
67-64-1	2-Propanone (acetone)	ND	92	
106-43-4	4-Chlorotoluene	ND	92	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	92	
107-13-1	Acrylonitrile	ND	92	
71-43-2	Benzene	ND	92	
108-86-1	Bromobenzene	ND	92	
74-97-5	Bromochloromethane	ND	92	
75-27-4	Bromodichloromethane	ND	92	
75-25-2	Bromoform	ND	92	
74-83-9	Bromomethane	ND	92	
75-15-0	Carbon Disulfide	ND	92	
56-23-5	Carbon tetrachloride	ND	92	
108-90-7	Chlorobenzene	ND	92	
75-00-3	Chloroethane	ND	92	
67-66-3	Chloroform	ND	92	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	82%
Dry Weight Extracted:	6.207 grams	Extract Dilution:	50
Wet Weight Extracted:	7.604 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	92	
124-48-1	Dibromochloromethane	ND	92	
74-95-3	Dibromomethane	ND	92	
75-71-8	Dichlorodifluoromethane	ND	92	
60-29-7	Ethyl Ether	ND	92	
100-41-4	Ethylbenzene	ND	92	
87-68-3	Hexachlorobutadiene	ND	92	
98-82-8	Isopropylbenzene	ND	92	
108-38-3/106-42-	M/P Xylene	ND	180	
1634-04-4	Methyl-t-Butyl Ether	ND	92	
75-09-2	Methylene Chloride	ND	92	
104-51-8	N-Butylbenzene	ND	92	
103-65-1	N-Propylbenzene	ND	92	
91-20-3	Naphthalene	ND	92	
95-47-6	Ortho Xylene	ND	92	
99-87-6	Para-Isopropyltoluene	ND	92	
135-98-8	Sec-Butylbenzene	ND	92	
100-42-5	Styrene	ND	92	
98-06-6	Tert-Butylbenzene	ND	92	
127-18-4	Tetrachloroethylene	ND	92	
109-99-9	Tetrahydrofuran	ND	92	
108-88-3	Toluene	ND	92	
156-60-5	Trans-1,2-Dichloroethylene	ND	92	
79-01-6	Trichloroethylene	ND	92	
75-69-4	Trichlorofluoromethane	ND	92	
108-05-4	Vinyl Acetate	ND	92	
75-01-4	Vinyl Chloride	ND	92	
10061-01-5	c-1,3-dichloropropene	ND	92	
156-59-2	cis-1,2-Dichloroethylene	ND	92	
10061-02-6	t-1,3-Dichloropropene	ND	92	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	109	74 - 136
Toluene-D8	102	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	74%
Dry Weight Extracted:	5.812 grams	Extract Dilution:	50
Wet Weight Extracted:	7.854 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	
71-55-6	1,1,1-Trichloroethane	ND	100	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	100	
79-00-5	1,1,2-Trichloroethane	ND	100	
75-35-4	1,1-Dichloroethylene	ND	100	
563-58-6	1,1-Dichloropropene	ND	100	
75-34-3	1,1-dichloroethane	ND	100	
87-61-6	1,2,3-Trichlorobenzene	ND	100	
96-18-4	1,2,3-Trichloropropane	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-63-6	1,2,4-Trimethylbenzene	ND	100	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	100	
106-93-4	1,2-Dibromoethane	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
107-06-2	1,2-Dichloroethane	ND	100	
78-87-5	1,2-Dichloropropane	ND	100	
108-67-8	1,3,5-Trimethylbenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
142-28-9	1,3-Dichloropropane	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
594-20-7	2,2-Dichloropropane	ND	100	
78-93-3	2-Butanone (MEK)	ND	100	
95-49-8	2-Chlorotoluene	ND	100	
591-78-6	2-Hexanone	ND	100	
67-64-1	2-Propanone (acetone)	ND	100	
106-43-4	4-Chlorotoluene	ND	100	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	100	
107-13-1	Acrylonitrile	ND	100	
71-43-2	Benzene	ND	100	
108-86-1	Bromobenzene	ND	100	
74-97-5	Bromochloromethane	ND	100	
75-27-4	Bromodichloromethane	ND	100	
75-25-2	Bromoform	ND	100	
74-83-9	Bromomethane	ND	100	
75-15-0	Carbon Disulfide	ND	100	
56-23-5	Carbon tetrachloride	ND	100	
108-90-7	Chlorobenzene	ND	100	
75-00-3	Chloroethane	ND	100	
67-66-3	Chloroform	ND	100	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	74%
Dry Weight Extracted:	5.812 grams	Extract Dilution:	50
Wet Weight Extracted:	7.854 grams	pH:	N/A

CAS Number	**Compound**	**Concentration ug/Kg**	**RL ug/Kg**	**Qualifier**
74-87-3	Chloromethane	ND	100	
124-48-1	Dibromochloromethane	ND	100	
74-95-3	Dibromomethane	ND	100	
75-71-8	Dichlorodifluoromethane	ND	100	
60-29-7	Ethyl Ether	ND	100	
100-41-4	Ethylbenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
98-82-8	Isopropylbenzene	ND	100	
108-38-3/106-42-	M/P Xylene	ND	210	
1634-04-4	Methyl-t-Butyl Ether	ND	100	
75-09-2	Methylene Chloride	ND	100	
104-51-8	N-Butylbenzene	ND	100	
103-65-1	N-Propylbenzene	ND	100	
91-20-3	Naphthalene	ND	100	
95-47-6	Ortho Xylene	ND	100	
99-87-6	Para-Isopropyltoluene	ND	100	
135-98-8	Sec-Butylbenzene	ND	100	
100-42-5	Styrene	ND	100	
98-06-6	Tert-Butylbenzene	ND	100	
127-18-4	Tetrachloroethylene	ND	100	
109-99-9	Tetrahydrofuran	ND	100	
108-88-3	Toluene	ND	100	
156-60-5	Trans-1,2-Dichloroethylene	ND	100	
79-01-6	Trichloroethylene	ND	100	
75-69-4	Trichlorofluoromethane	ND	100	
108-05-4	Vinyl Acetate	ND	100	
75-01-4	Vinyl Chloride	ND	100	
10061-01-5	c-1,3-dichloropropene	ND	100	
156-59-2	cis-1,2-Dichloroethylene	ND	100	
10061-02-6	t-1,3-Dichloropropene	ND	100	

Surrogate Compounds	**Recoveries (%)**	**QC Ranges**
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	111	74 - 136
Toluene-D8	97	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0085		Lab Sample ID:	AB32226
Date of Collection:	8/21/2012		Matrix	Soil
Date of Extraction:	8/24/12		Volume Purged:	5 mL
Date of Analysis:	8/24/12		Percent Solids:	84%
Dry Weight Extracted:	7.477 grams		Extract Dilution:	50
Wet Weight Extracted:	8.909 grams		pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	76	
71-55-6	1,1,1-Trichloroethane	ND	76	
79-34-5	1,1,2,2-Tetrachloroethane	ND	76	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	76	
79-00-5	1,1,2-Trichloroethane	ND	76	
75-35-4	1,1-Dichloroethylene	ND	76	
563-58-6	1,1-Dichloropropene	ND	76	
75-34-3	1,1-dichloroethane	ND	76	
87-61-6	1,2,3-Trichlorobenzene	ND	76	
96-18-4	1,2,3-Trichloropropane	ND	76	
120-82-1	1,2,4-Trichlorobenzene	ND	76	
95-63-6	1,2,4-Trimethylbenzene	ND	76	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	76	
106-93-4	1,2-Dibromoethane	ND	76	
95-50-1	1,2-Dichlorobenzene	ND	76	
107-06-2	1,2-Dichloroethane	ND	76	
78-87-5	1,2-Dichloropropane	ND	76	
108-67-8	1,3,5-Trimethylbenzene	ND	76	
541-73-1	1,3-Dichlorobenzene	ND	76	
142-28-9	1,3-Dichloropropane	ND	76	
106-46-7	1,4-Dichlorobenzene	ND	76	
594-20-7	2,2-Dichloropropane	ND	76	
78-93-3	2-Butanone (MEK)	ND	76	
95-49-8	2-Chlorotoluene	ND	76	
591-78-6	2-Hexanone	ND	76	
67-64-1	2-Propanone (acetone)	**110**	76	
106-43-4	4-Chlorotoluene	ND	76	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	76	
107-13-1	Acrylonitrile	ND	76	
71-43-2	Benzene	ND	76	
108-86-1	Bromobenzene	ND	76	
74-97-5	Bromochloromethane	ND	76	
75-27-4	Bromodichloromethane	ND	76	
75-25-2	Bromoform	ND	76	
74-83-9	Bromomethane	ND	76	
75-15-0	Carbon Disulfide	ND	76	
56-23-5	Carbon tetrachloride	ND	76	
108-90-7	Chlorobenzene	ND	76	
75-00-3	Chloroethane	ND	76	
67-66-3	Chloroform	ND	76	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32226
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	84%
Dry Weight Extracted:	7.477 grams	Extract Dilution:	50
Wet Weight Extracted:	8.909 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	76	
124-48-1	Dibromochloromethane	ND	76	
74-95-3	Dibromomethane	ND	76	
75-71-8	Dichlorodifluoromethane	ND	76	
60-29-7	Ethyl Ether	ND	76	
100-41-4	Ethylbenzene	ND	76	
87-68-3	Hexachlorobutadiene	ND	76	
98-82-8	Isopropylbenzene	ND	76	
108-38-3/106-42-	M/P Xylene	ND	150	
1634-04-4	Methyl-t-Butyl Ether	ND	76	
75-09-2	Methylene Chloride	ND	76	
104-51-8	N-Butylbenzene	ND	76	
103-65-1	N-Propylbenzene	ND	76	
91-20-3	Naphthalene	ND	76	
95-47-6	Ortho Xylene	ND	76	
99-87-6	Para-Isopropyltoluene	ND	76	
135-98-8	Sec-Butylbenzene	ND	76	
100-42-5	Styrene	ND	76	
98-06-6	Tert-Butylbenzene	ND	76	
127-18-4	Tetrachloroethylene	ND	76	
109-99-9	Tetrahydrofuran	ND	76	
108-88-3	Toluene	ND	76	
156-60-5	Trans-1,2-Dichloroethylene	ND	76	
79-01-6	Trichloroethylene	ND	76	
75-69-4	Trichlorofluoromethane	ND	76	
108-05-4	Vinyl Acetate	ND	76	
75-01-4	Vinyl Chloride	ND	76	
10061-01-5	c-1,3-dichloropropene	ND	76	
156-59-2	cis-1,2-Dichloroethylene	ND	76	
10061-02-6	t-1,3-Dichloropropene	ND	76	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	93	78 - 111
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	101	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	5.592 grams	Extract Dilution:	50
Wet Weight Extracted:	7.078 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	100	
71-55-6	1,1,1-Trichloroethane	ND	100	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	100	
79-00-5	1,1,2-Trichloroethane	ND	100	
75-35-4	1,1-Dichloroethylene	ND	100	
563-58-6	1,1-Dichloropropene	ND	100	
75-34-3	1,1-dichloroethane	ND	100	
87-61-6	1,2,3-Trichlorobenzene	ND	100	
96-18-4	1,2,3-Trichloropropane	ND	100	
120-82-1	1,2,4-Trichlorobenzene	ND	100	
95-63-6	1,2,4-Trimethylbenzene	ND	100	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	100	
106-93-4	1,2-Dibromoethane	ND	100	
95-50-1	1,2-Dichlorobenzene	ND	100	
107-06-2	1,2-Dichloroethane	ND	100	
78-87-5	1,2-Dichloropropane	ND	100	
108-67-8	1,3,5-Trimethylbenzene	ND	100	
541-73-1	1,3-Dichlorobenzene	ND	100	
142-28-9	1,3-Dichloropropane	ND	100	
106-46-7	1,4-Dichlorobenzene	ND	100	
594-20-7	2,2-Dichloropropane	ND	100	
78-93-3	2-Butanone (MEK)	ND	100	
95-49-8	2-Chlorotoluene	ND	100	
591-78-6	2-Hexanone	ND	100	
67-64-1	2-Propanone (acetone)	ND	100	
106-43-4	4-Chlorotoluene	ND	100	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	100	
107-13-1	Acrylonitrile	ND	100	
71-43-2	Benzene	ND	100	
108-86-1	Bromobenzene	ND	100	
74-97-5	Bromochloromethane	ND	100	
75-27-4	Bromodichloromethane	ND	100	
75-25-2	Bromoform	ND	100	
74-83-9	Bromomethane	ND	100	
75-15-0	Carbon Disulfide	ND	100	
56-23-5	Carbon tetrachloride	ND	100	
108-90-7	Chlorobenzene	ND	100	
75-00-3	Chloroethane	ND	100	
67-66-3	Chloroform	ND	100	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	79%
Dry Weight Extracted:	5.592 grams	Extract Dilution:	50
Wet Weight Extracted:	7.078 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	100	
124-48-1	Dibromochloromethane	ND	100	
74-95-3	Dibromomethane	ND	100	
75-71-8	Dichlorodifluoromethane	ND	100	
60-29-7	Ethyl Ether	ND	100	
100-41-4	Ethylbenzene	ND	100	
87-68-3	Hexachlorobutadiene	ND	100	
98-82-8	Isopropylbenzene	ND	100	
108-38-3/106-42-	M/P Xylene	ND	210	
1634-04-4	Methyl-t-Butyl Ether	ND	100	
75-09-2	Methylene Chloride	ND	100	
104-51-8	N-Butylbenzene	ND	100	
103-65-1	N-Propylbenzene	ND	100	
91-20-3	Naphthalene	ND	100	
95-47-6	Ortho Xylene	ND	100	
99-87-6	Para-Isopropyltoluene	ND	100	
135-98-8	Sec-Butylbenzene	ND	100	
100-42-5	Styrene	ND	100	
98-06-6	Tert-Butylbenzene	ND	100	
127-18-4	Tetrachloroethylene	ND	100	
109-99-9	Tetrahydrofuran	ND	100	
108-88-3	Toluene	ND	100	
156-60-5	Trans-1,2-Dichloroethylene	ND	100	
79-01-6	Trichloroethylene	ND	100	
75-69-4	Trichlorofluoromethane	ND	100	
108-05-4	Vinyl Acetate	ND	100	
75-01-4	Vinyl Chloride	ND	100	
10061-01-5	c-1,3-dichloropropene	ND	100	
156-59-2	cis-1,2-Dichloroethylene	ND	100	
10061-02-6	t-1,3-Dichloropropene	ND	100	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	89	78 - 111
1,2-Dichloroethane-D4	112	74 - 136
Toluene-D8	100	85 - 118

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0094	Lab Sample ID:	AB32234
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	**2900**	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	**6800**	500	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	**7000**	500	
87-61-6	1,2,3-Trichlorobenzene	ND	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	**2700**	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	**4200**	50	
106-93-4	1,2-Dibromoethane	**4500**	50	
95-50-1	1,2-Dichlorobenzene	ND	50	
107-06-2	1,2-Dichloroethane	**5200**	500	
78-87-5	1,2-Dichloropropane	**3300**	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	**2000**	50	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	**3300**	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	ND	50	
67-64-1	2-Propanone (acetone)	**9400**	500	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**11000**	500	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	ND	50	
108-86-1	Bromobenzene	**4400**	50	
74-97-5	Bromochloromethane	**7400**	500	
75-27-4	Bromodichloromethane	ND	50	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	**3400**	50	
108-90-7	Chlorobenzene	ND	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	**1100**	50	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0094	Lab Sample ID:	AB32234
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	**7000**	500	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	ND	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	**2300**	50	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	**8900**	500	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	ND	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	**2700**	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	**4700**	500	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	ND	50	
156-60-5	Trans-1,2-Dichloroethylene	ND	50	
79-01-6	Trichloroethylene	**3200**	50	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	**2400**	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	101	78 - 111
1,2-Dichloroethane-D4	89	74 - 136
Toluene-D8	104	85 - 118

Comments: Several compounds required a five-hundred fold dilution.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0095	Lab Sample ID:	AB32235
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	**1500**	50	
87-61-6	1,2,3-Trichlorobenzene	**2200**	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	**5700**	500	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	**3100**	50	
107-06-2	1,2-Dichloroethane	**3400**	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	**4500**	500	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	**3700**	50	
67-64-1	2-Propanone (acetone)	**4400**	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	**5800**	500	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	**8700**	500	
108-86-1	Bromobenzene	**3100**	50	
74-97-5	Bromochloromethane	**2900**	50	
75-27-4	Bromodichloromethane	**4300**	500	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	**1400**	50	
108-90-7	Chlorobenzene	**3800**	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	**4300**	50	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0095	Lab Sample ID:	AB32235
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	100%
Dry Weight Extracted:	5.000 grams	Extract Dilution:	50
Wet Weight Extracted:	5.000 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	**3300**	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	**1300**	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	**3700**	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	**5300**	500	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	**2600**	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	**6900**	500	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	**1400**	50	
156-60-5	Trans-1,2-Dichloroethylene	**2300**	50	
79-01-6	Trichloroethylene	**5400**	500	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	**4300**	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	103	78 - 111
1,2-Dichloroethane-D4	98	74 - 136
Toluene-D8	100	85 - 118

Comments: Several compounds required a five-hundred fold dilution.

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0099	Lab Sample ID:	AB32236
Date of Collection:	8/22/2012	Matrix	MEOH
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	50	
71-55-6	1,1,1-Trichloroethane	ND	50	
79-34-5	1,1,2,2-Tetrachloroethane	ND	50	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	50	
79-00-5	1,1,2-Trichloroethane	ND	50	
75-35-4	1,1-Dichloroethylene	ND	50	
563-58-6	1,1-Dichloropropene	ND	50	
75-34-3	1,1-dichloroethane	ND	50	
87-61-6	1,2,3-Trichlorobenzene	ND	50	
96-18-4	1,2,3-Trichloropropane	ND	50	
120-82-1	1,2,4-Trichlorobenzene	ND	50	
95-63-6	1,2,4-Trimethylbenzene	ND	50	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	50	
106-93-4	1,2-Dibromoethane	ND	50	
95-50-1	1,2-Dichlorobenzene	ND	50	
107-06-2	1,2-Dichloroethane	ND	50	
78-87-5	1,2-Dichloropropane	ND	50	
108-67-8	1,3,5-Trimethylbenzene	ND	50	
541-73-1	1,3-Dichlorobenzene	ND	50	
142-28-9	1,3-Dichloropropane	ND	50	
106-46-7	1,4-Dichlorobenzene	ND	50	
594-20-7	2,2-Dichloropropane	ND	50	
78-93-3	2-Butanone (MEK)	ND	50	
95-49-8	2-Chlorotoluene	ND	50	
591-78-6	2-Hexanone	ND	50	
67-64-1	2-Propanone (acetone)	ND	50	
106-43-4	4-Chlorotoluene	ND	50	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	50	
107-13-1	Acrylonitrile	ND	50	
71-43-2	Benzene	ND	50	
108-86-1	Bromobenzene	ND	50	
74-97-5	Bromochloromethane	ND	50	
75-27-4	Bromodichloromethane	ND	50	
75-25-2	Bromoform	ND	50	
74-83-9	Bromomethane	ND	50	
75-15-0	Carbon Disulfide	ND	50	
56-23-5	Carbon tetrachloride	ND	50	
108-90-7	Chlorobenzene	ND	50	
75-00-3	Chloroethane	ND	50	
67-66-3	Chloroform	ND	50	

Kiley Barrel Allen St - Somerville, MA

VOAs in Soil High Level Method

Client Sample ID:	12060001-0099	Lab Sample ID:	AB32236
Date of Collection:	8/22/2012	Matrix	MEOH
Date of Extraction:	8/24/12	Volume Purged:	5 mL
Date of Analysis:	8/24/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	50
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
74-87-3	Chloromethane	ND	50	
124-48-1	Dibromochloromethane	ND	50	
74-95-3	Dibromomethane	ND	50	
75-71-8	Dichlorodifluoromethane	ND	50	
60-29-7	Ethyl Ether	ND	50	
100-41-4	Ethylbenzene	ND	50	
87-68-3	Hexachlorobutadiene	ND	50	
98-82-8	Isopropylbenzene	ND	50	
108-38-3/106-42-	M/P Xylene	ND	100	
1634-04-4	Methyl-t-Butyl Ether	ND	50	
75-09-2	Methylene Chloride	ND	50	
104-51-8	N-Butylbenzene	ND	50	
103-65-1	N-Propylbenzene	ND	50	
91-20-3	Naphthalene	ND	50	
95-47-6	Ortho Xylene	ND	50	
99-87-6	Para-Isopropyltoluene	ND	50	
135-98-8	Sec-Butylbenzene	ND	50	
100-42-5	Styrene	ND	50	
98-06-6	Tert-Butylbenzene	ND	50	
127-18-4	Tetrachloroethylene	ND	50	
109-99-9	Tetrahydrofuran	ND	50	
108-88-3	Toluene	ND	50	
156-60-5	Trans-1,2-Dichloroethylene	ND	50	
79-01-6	Trichloroethylene	ND	50	
75-69-4	Trichlorofluoromethane	ND	50	
108-05-4	Vinyl Acetate	ND	50	
75-01-4	Vinyl Chloride	ND	50	
10061-01-5	c-1,3-dichloropropene	ND	50	
156-59-2	cis-1,2-Dichloroethylene	ND	50	
10061-02-6	t-1,3-Dichloropropene	ND	50	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,4-Bromofluorobenzene	92	78 - 111
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	97	85 - 118

Comments: Methanol based sample is reported in ug/L.

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32221

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	1,918	ND	1900	99	74 - 124
1,1,1-Trichloroethane	1,918	ND	1900	99	76 - 132
1,1,2,2-Tetrachloroethane	1,918	ND	1800	94	69 - 125
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,918	ND	2000	100	68 - 144
1,1,2-Trichloroethane	1,918	ND	2000	100	75 - 126
1,1-Dichloroethylene	1,918	ND	2000	100	65 - 140
1,1-Dichloropropene	1,918	ND	1900	99	81 - 125
1,1-dichloroethane	1,918	ND	1900	99	77 - 130
1,2,3-Trichlorobenzene	1,918	ND	1800	94	64 - 125
1,2,3-Trichloropropane	1,918	ND	1900	99	68 - 122
1,2,4-Trichlorobenzene	1,918	ND	1700	89	72 - 120
1,2,4-Trimethylbenzene	1,918	ND	1900	99	81 - 125
1,2-Dibromo-3-Chloropropane	1,918	ND	1600	83	54 - 125
1,2-Dibromoethane	1,918	ND	1900	99	73 - 124
1,2-Dichlorobenzene	1,918	ND	1900	99	81 - 116
1,2-Dichloroethane	1,918	ND	2000	100	74 - 130
1,2-Dichloropropane	1,918	ND	1900	99	78 - 120
1,3,5-Trimethylbenzene	1,918	ND	2000	100	81 - 125
1,3-Dichlorobenzene	1,918	ND	1900	99	82 - 117
1,3-Dichloropropane	1,918	ND	1900	99	76 - 123
1,4-Dichlorobenzene	1,918	ND	1900	99	80 - 116
2,2-Dichloropropane	1,918	ND	2000	100	57 - 147
2-Butanone (MEK)	1,918	ND	1800	94	41 - 151
2-Chlorotoluene	1,918	ND	2000	100	82 - 119
2-Hexanone	1,918	ND	1800	94	51 - 148
2-Propanone (acetone)	1,918	ND	2100	110	25 - 161
4-Chlorotoluene	1,918	ND	1900	99	82 - 119
4-Methyl-2-Pentanone(MIBK)	1,918	ND	1900	99	62 - 130
Acrylonitrile	1,918	ND	1800	94	67 - 130
Benzene	1,918	ND	2000	100	82 - 124
Bromobenzene	1,918	ND	2000	100	79 - 119
Bromochloromethane	1,918	ND	1900	99	79 - 125
Bromodichloromethane	1,918	ND	1900	99	71 - 126
Bromoform	1,918	ND	1800	94	56 - 119
Bromomethane	1,918	ND	1700	89	37 - 161
Carbon Disulfide	1,918	ND	1800	94	63 - 134
Carbon tetrachloride	1,918	ND	1900	99	68 - 136
Chlorobenzene	1,918	ND	2000	100	82 - 126
Chloroethane	1,918	ND	1700	89	57 - 148
Chloroform	1,918	ND	1900	99	78 - 130
Chloromethane	1,918	ND	1700	89	56 - 147
Dibromochloromethane	1,918	ND	1900	99	62 - 131
Dibromomethane	1,918	ND	1900	99	75 - 122
Dichlorodifluoromethane	1,918	ND	1600	83	59 - 131
Ethyl Ether	1,918	ND	1900	99	65 - 138
Ethylbenzene	1,918	ND	2000	100	82 - 122
Hexachlorobutadiene	1,918	ND	1800	94	70 - 130
Isopropylbenzene	1,918	ND	2000	100	82 - 125

M/P Xylene	3,816	ND	3900	100	85 - 120
Methyl-t-Butyl Ether	1,918	ND	1900	99	74 - 125
Methylene Chloride	1,918	ND	2000	100	67 - 139
N-Butylbenzene	1,918	ND	1700	89	80 - 129
N-Propylbenzene	1,918	ND	1900	99	81 - 122
Naphthalene	1,918	ND	1800	94	59 - 129
Ortho Xylene	1,918	ND	1900	99	84 - 122
Para-Isopropyltoluene	1,918	ND	1700	89	79 - 129
Sec-Butylbenzene	1,918	ND	1900	99	81 - 126
Styrene	1,918	ND	2000	100	82 - 125
Tert-Butylbenzene	1,918	ND	2000	100	81 - 126
Tetrachloroethylene	1,918	ND	1800	94	74 - 133
Tetrahydrofuran	1,918	ND	1800	94	60 - 132
Toluene	1,918	ND	2000	100	82 - 124
Trans-1,2-Dichloroethylene	1,918	ND	1900	99	79 - 127
Trichloroethylene	1,918	ND	1900	99	76 - 124
Trichlorofluoromethane	1,918	ND	1800	94	65 - 144
Vinyl Acetate	1,918	ND	1700	89	14 - 152
Vinyl Chloride	1,918	ND	1100	57	34 - 142
c-1,3-dichloropropene	1,918	ND	2000	100	68 - 133
cis-1,2-Dichloroethylene	1,918	ND	1900	99	79 - 131
t-1,3-Dichloropropene	1,918	ND	2000	100	65 - 126

Comments:

Sample ID: AB32221

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/Kg	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	1,918	2000	100	1	40
1,1,1-Trichloroethane	1,918	2000	100	1	40
1,1,2,2-Tetrachloroethane	1,918	1900	99	5	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	1,918	2000	100	0	40
1,1,2-Trichloroethane	1,918	2000	100	0	40
1,1-Dichloroethylene	1,918	2100	110	10	52
1,1-Dichloropropene	1,918	2000	100	1	40
1,1-dichloroethane	1,918	2000	100	1	40
1,2,3-Trichlorobenzene	1,918	1900	99	5	40
1,2,3-Trichloropropane	1,918	2000	100	1	40
1,2,4-Trichlorobenzene	1,918	1900	99	11	40
1,2,4-Trimethylbenzene	1,918	2100	110	11	40
1,2-Dibromo-3-Chloropropane	1,918	1700	89	7	40
1,2-Dibromoethane	1,918	2000	100	1	40
1,2-Dichlorobenzene	1,918	2000	100	1	40
1,2-Dichloroethane	1,918	2100	110	10	40
1,2-Dichloropropane	1,918	2000	100	1	40
1,3,5-Trimethylbenzene	1,918	2100	110	10	40
1,3-Dichlorobenzene	1,918	2000	100	1	40
1,3-Dichloropropane	1,918	2000	100	1	40
1,4-Dichlorobenzene	1,918	2000	100	1	40
2,2-Dichloropropane	1,918	2000	100	0	40
2-Butanone (MEK)	1,918	1800	94	0	40
2-Chlorotoluene	1,918	2100	110	10	40
2-Hexanone	1,918	1900	99	5	40
2-Propanone (acetone)	1,918	2000	100	10	40
4-Chlorotoluene	1,918	1900	99	0	40
4-Methyl-2-Pentanone(MIBK)	1,918	1900	99	0	40
Acrylonitrile	1,918	2500	130	32	40
Benzene	1,918	2100	110	10	24
Bromobenzene	1,918	2100	110	10	40
Bromochloromethane	1,918	1900	99	0	40
Bromodichloromethane	1,918	1900	99	0	40
Bromoform	1,918	1900	99	5	40
Bromomethane	1,918	1700	89	0	40
Carbon Disulfide	1,918	1900	99	5	40
Carbon tetrachloride	1,918	1900	99	0	40
Chlorobenzene	1,918	2100	110	10	34
Chloroethane	1,918	1800	94	6	40
Chloroform	1,918	2000	100	1	40
Chloromethane	1,918	1700	89	0	40
Dibromochloromethane	1,918	1900	99	0	40
Dibromomethane	1,918	1900	99	0	40
Dichlorodifluoromethane	1,918	1600	83	0	40
Ethyl Ether	1,918	1900	99	0	40
Ethylbenzene	1,918	2000	100	0	40
Hexachlorobutadiene	1,918	2000	100	6	40
Isopropylbenzene	1,918	2100	110	10	40
M/P Xylene	3,836	4100	110	10	40
Methyl-t-Butyl Ether	1,918	2100	110	11	40
Methylene Chloride	1,918	2000	100	0	40
N-Butylbenzene	1,918	1800	94	6	40
N-Propylbenzene	1,918	2100	110	11	40

Naphthalene	1,918	2000	100	6	40
Ortho Xylene	1,918	2000	100	1	40
Para-Isopropyltoluene	1,918	1800	94	6	40
Sec-Butylbenzene	1,918	2100	110	11	40
Styrene	1,918	2100	110	10	40
Tert-Butylbenzene	1,918	2200	110	10	40
Tetrachloroethylene	1,918	1900	99	5	40
Tetrahydrofuran	1,918	1800	94	0	40
Toluene	1,918	2100	110	10	33
Trans-1,2-Dichloroethylene	1,918	2300	120	19	40
Trichloroethylene	1,918	1900	99	0	27
Trichlorofluoromethane	1,918	1900	99	5	40
Vinyl Acetate	1,918	1700	89	0	40
Vinyl Chloride	1,918	1100	57	0	40
c-1,3-dichloropropene	1,918	2000	100	0	40
cis-1,2-Dichloroethylene	1,918	2000	100	1	40
t-1,3-Dichloropropene	1,918	2100	110	10	40

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32221

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	40
1,1,1-Trichloroethane	ND	ND	ND	40
1,1,2,2-Tetrachloroethane	ND	ND	ND	40
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	40
1,1,2-Trichloroethane	ND	ND	ND	40
1,1-Dichloroethylene	ND	ND	ND	40
1,1-Dichloropropene	ND	ND	ND	40
1,1-dichloroethane	ND	ND	ND	40
1,2,3-Trichlorobenzene	ND	ND	ND	40
1,2,3-Trichloropropane	ND	ND	ND	40
1,2,4-Trichlorobenzene	ND	ND	ND	40
1,2,4-Trimethylbenzene	ND	ND	ND	40
1,2-Dibromo-3-Chloropropane	ND	ND	ND	40
1,2-Dibromoethane	ND	ND	ND	40
1,2-Dichlorobenzene	ND	ND	ND	40
1,2-Dichloroethane	ND	ND	ND	40
1,2-Dichloropropane	ND	ND	ND	40
1,3,5-Trimethylbenzene	ND	ND	ND	40
1,3-Dichlorobenzene	ND	ND	ND	40
1,3-Dichloropropane	ND	ND	ND	40
1,4-Dichlorobenzene	ND	ND	ND	40
2,2-Dichloropropane	ND	ND	ND	40
2-Butanone (MEK)	ND	ND	ND	40
2-Chlorotoluene	ND	ND	ND	40
2-Hexanone	ND	ND	ND	40
2-Propanone (acetone)	ND	ND	ND	40
4-Chlorotoluene	ND	ND	ND	40
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	40
Acrylonitrile	ND	ND	ND	40
Benzene	ND	ND	ND	40
Bromobenzene	ND	ND	ND	40
Bromochloromethane	ND	ND	ND	40
Bromodichloromethane	ND	ND	ND	40
Bromoform	ND	ND	ND	40
Bromomethane	ND	ND	ND	40
Carbon Disulfide	ND	ND	ND	40
Carbon tetrachloride	ND	ND	ND	40
Chlorobenzene	ND	ND	ND	40
Chloroethane	ND	ND	ND	40
Chloroform	ND	ND	ND	40
Chloromethane	ND	ND	ND	40
Dibromochloromethane	ND	ND	ND	40
Dibromomethane	ND	ND	ND	40
Dichlorodifluoromethane	ND	ND	ND	40
Ethyl Ether	ND	ND	ND	40
Ethylbenzene	ND	ND	ND	40
Hexachlorobutadiene	ND	ND	ND	40
Isopropylbenzene	ND	ND	ND	40
M/P Xylene	ND	ND	ND	40

Methyl-t-Butyl Ether	ND	ND	ND	40
Methylene Chloride	ND	ND	ND	40
N-Butylbenzene	ND	ND	ND	40
N-Propylbenzene	ND	ND	ND	40
Naphthalene	ND	ND	ND	40
Ortho Xylene	ND	ND	ND	40
Para-Isopropyltoluene	ND	ND	ND	40
Sec-Butylbenzene	ND	ND	ND	40
Styrene	ND	ND	ND	40
Tert-Butylbenzene	ND	ND	ND	40
Tetrachloroethylene	ND	ND	ND	40
Tetrahydrofuran	ND	ND	ND	40
Toluene	ND	ND	ND	40
Trans-1,2-Dichloroethylene	ND	ND	ND	40
Trichloroethylene	ND	ND	ND	40
Trichlorofluoromethane	ND	ND	ND	40
Vinyl Acetate	ND	ND	ND	40
Vinyl Chloride	ND	ND	ND	40
c-1,3-dichloropropene	ND	ND	ND	40
cis-1,2-Dichloroethylene	ND	ND	ND	40
t-1,3-Dichloropropene	ND	ND	ND	40

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/Kg	LFB RESULT ug/Kg	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	19.5	98	77 - 122
1,1,1-Trichloroethane	20	20.2	101	80 - 128
1,1,2,2-Tetrachloroethane	20	19.2	96	73 - 118
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	16.1	81	59 - 146
1,1,2-Trichloroethane	20	20.1	101	79 - 117
1,1-Dichloroethylene	20	21.4	107	70 - 130
1,1-Dichloropropene	20	20.4	102	79 - 123
1,1-dichloroethane	20	19.6	98	81 - 122
1,2,3-Trichlorobenzene	20	17.9	90	70 - 119
1,2,3-Trichloropropane	20	19.0	95	73 - 114
1,2,4-Trichlorobenzene	20	17.5	88	74 - 120
1,2,4-Trimethylbenzene	20	19.8	99	79 - 123
1,2-Dibromo-3-Chloropropane	20	16.1	81	63 - 124
1,2-Dibromoethane	20	19.4	97	79 - 116
1,2-Dichlorobenzene	20	19.1	96	77 - 117
1,2-Dichloroethane	20	20.1	101	75 - 124
1,2-Dichloropropane	20	19.6	98	80 - 117
1,3,5-Trimethylbenzene	20	19.9	100	80 - 122
1,3-Dichlorobenzene	20	18.9	95	78 - 117
1,3-Dichloropropane	20	19.8	99	79 - 116
1,4-Dichlorobenzene	20	19.1	96	77 - 115
2,2-Dichloropropane	20	21.8	109	64 - 152
2-Butanone (MEK)	20	19.7	99	55 - 144
2-Chlorotoluene	20	20.2	101	79 - 119
2-Hexanone	20	19.8	99	58 - 147
2-Propanone (acetone)	20	14.2	71	37 - 168
4-Chlorotoluene	20	19.7	99	78 - 120
4-Methyl-2-Pentanone(MIBK)	20	19.1	96	68 - 125
Acrylonitrile	20	17.6	88	68 - 124
Benzene	20	20.0	100	80 - 120
Bromobenzene	20	19.4	97	80 - 115
Bromochloromethane	20	19.5	98	81 - 120
Bromodichloromethane	20	19.2	96	77 - 125
Bromoform	20	19.1	96	62 - 127
Bromomethane	20	17.1	86	60 - 139
Carbon Disulfide	20	17.4	87	73 - 129
Carbon tetrachloride	20	19.6	98	73 - 136
Chlorobenzene	20	19.9	100	82 - 119
Chloroethane	20	17.7	89	69 - 130
Chloroform	20	19.5	98	80 - 122
Chloromethane	20	17.5	88	65 - 129
Dibromochloromethane	20	19.1	96	71 - 129
Dibromomethane	20	19.5	98	79 - 115
Dichlorodifluoromethane	20	16.7	84	69 - 126
Ethyl Ether	20	19.2	96	69 - 127
Ethylbenzene	20	20.9	105	80 - 121
Hexachlorobutadiene	20	18.7	94	72 - 124
Isopropylbenzene	20	20.3	102	79 - 124
M/P Xylene	40	41.3	103	81 - 120
Methyl-t-Butyl Ether	20	18.9	95	78 - 120
Methylene Chloride	20	20.6	103	73 - 129
N-Butylbenzene	20	17.2	86	78 - 126

N-Propylbenzene	20	19.6	98	78 - 122
Naphthalene	20	17.8	89	66 - 124
Ortho Xylene	20	19.8	99	81 - 121
Para-Isopropyltoluene	20	17.2	86	77 - 127
Sec-Butylbenzene	20	19.7	99	79 - 124
Styrene	20	20.7	104	82 - 122
Tert-Butylbenzene	20	19.0	95	78 - 124
Tetrachloroethylene	20	18.4	92	77 - 118
Tetrahydrofuran	20	18.4	92	67 - 124
Toluene	20	20.3	102	81 - 120
Trans-1,2-Dichloroethylene	20	20.1	101	80 - 121
Trichloroethylene	20	19.6	98	80 - 117
Trichlorofluoromethane	20	19.7	99	68 - 137
Vinyl Acetate	20	18.2	91	25 - 150
Vinyl Chloride	20	17.2	86	67 - 134
c-1,3-dichloropropene	20	20.0	100	73 - 133
cis-1,2-Dichloroethylene	20	20.6	103	82 - 122
t-1,3-Dichloropropene	20	20.2	101	69 - 127

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/Kg	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20.5	103	5	50
1,1,1-Trichloroethane	20.4	102	1	50
1,1,2,2-Tetrachloroethane	19.0	95	1	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20.2	101	23	50
1,1,2-Trichloroethane	20.4	102	2	50
1,1-Dichloroethylene	17.0	85	23	52
1,1-Dichloropropene	21.3	107	4	50
1,1-dichloroethane	19.8	99	1	50
1,2,3-Trichlorobenzene	18.5	93	3	50
1,2,3-Trichloropropane	19.3	97	2	50
1,2,4-Trichlorobenzene	18.0	90	3	50
1,2,4-Trimethylbenzene	20.6	103	4	50
1,2-Dibromo-3-Chloropropane	16.1	81	0	50
1,2-Dibromoethane	19.8	99	2	50
1,2-Dichlorobenzene	19.7	99	3	50
1,2-Dichloroethane	20.4	102	2	50
1,2-Dichloropropane	20.2	101	3	50
1,3,5-Trimethylbenzene	20.6	103	4	50
1,3-Dichlorobenzene	20.2	101	7	50
1,3-Dichloropropane	19.9	100	1	50
1,4-Dichlorobenzene	20.4	102	7	50
2,2-Dichloropropane	22.1	111	1	50
2-Butanone (MEK)	19.7	99	0	50
2-Chlorotoluene	20.4	102	1	50
2-Hexanone	20.3	102	3	50
2-Propanone (acetone)	21.8	109	42	50
4-Chlorotoluene	20.0	100	2	50
4-Methyl-2-Pentanone(MIBK)	19.3	97	1	50
Acrylonitrile	17.5	88	1	50
Benzene	21.1	106	5	50
Bromobenzene	20.6	103	6	50
Bromochloromethane	19.2	96	2	50
Bromodichloromethane	20.0	100	4	50
Bromoform	19.2	96	1	50
Bromomethane	16.9	85	1	50
Carbon Disulfide	19.6	98	12	50
Carbon tetrachloride	20.7	104	6	50
Chlorobenzene	20.9	105	5	34
Chloroethane	18.4	92	4	50
Chloroform	19.6	98	1	50
Chloromethane	17.5	88	0	50
Dibromochloromethane	19.8	99	4	50
Dibromomethane	19.1	96	2	50
Dichlorodifluoromethane	16.5	83	1	50
Ethyl Ether	18.8	94	2	50
Ethylbenzene	21.3	107	2	50
Hexachlorobutadiene	20.1	101	7	50
Isopropylbenzene	21.2	106	4	50
M/P Xylene	42.1	105	2	50
Methyl-t-Butyl Ether	19.3	97	2	50
Methylene Chloride	19.9	100	4	50
N-Butylbenzene	17.9	90	4	50
N-Propylbenzene	20.1	101	3	50
Naphthalene	18.7	94	5	50
Ortho Xylene	21.2	106	7	50

Para-Isopropyltoluene	17.6	88	2	50
Sec-Butylbenzene	20.2	101	3	50
Styrene	21.5	108	4	50
Tert-Butylbenzene	21.5	108	12	50
Tetrachloroethylene	19.3	97	5	50
Tetrahydrofuran	17.9	90	3	50
Toluene	21.7	109	7	50
Trans-1,2-Dichloroethylene	20.0	100	1	50
Trichloroethylene	20.0	100	2	27
Trichlorofluoromethane	19.6	98	1	50
Vinyl Acetate	18.0	90	1	50
Vinyl Chloride	17.1	86	1	50
c-1,3-dichloropropene	20.6	103	3	50
cis-1,2-Dichloroethylene	20.3	102	2	50
t-1,3-Dichloropropene	21.0	105	4	50

Samples in Batch: AB32221, AB32222, AB32223, AB32224, AB32225, AB32226, AB32227, AB32234, AB32235, AB32236

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	~~12060001-0005~~	~~SS-03C~~	~~SVOC~~	~~SOIL~~	~~8/22/2012~~	~~11:47~~	~~1~~	~~none~~	~~n~~
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 4 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Printed on 100% Recycled Pape

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	**SAMPLES TRANSFERRED FROM** **CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christa Ley	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample-Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 14 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	~~12060001-0084~~	~~SS-31C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~10:02~~	~~1~~	~~NONE~~	~~N~~
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

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		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 06, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: BNAs in Soils Medium Level
Analyst: Bhavita Patel

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.06 07:20:44 -04'00'

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	85%
Dry Weight Extracted:	8.719 grams	Extract Dilution:	1
Wet Weight Extracted:	10.242 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	290	
120-82-1	1,2,4-Trichlorobenzene	ND	290	
95-50-1	1,2-Dichlorobenzene	ND	290	
541-73-1	1,3-Dichlorobenzene	ND	290	
99-65-0	1,3-Dinitrobenzene	ND	290	
106-46-7	1,4-Dichlorobenzene	ND	290	
130-15-4	1,4-Naphthoquinone	ND	290	
90-12-0	1-Methylnaphthalene	ND	290	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	290	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	290	
95-95-4	2,4,5-Trichlorophenol	ND	290	
88-06-2	2,4,6-Trichlorophenol	ND	290	
120-83-2	2,4-Dichlorophenol	ND	290	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	290	
105-67-9	2,4-dimethylphenol	ND	290	
87-65-0	2,6-Dichlorophenol	ND	290	
606-20-2	2,6-Dinitrotoluene	ND	290	
91-58-7	2-Chloronaphthalene	ND	290	
95-57-8	2-Chlorophenol	ND	290	
91-57-6	2-Methylnaphthalene	ND	290	
95-48-7	2-Methylphenol	ND	290	
88-74-4	2-Nitroaniline	ND	290	
88-75-5	2-Nitrophenol	ND	290	
108-39-4/106-44-	3&4-Methylphenol	ND	580	
91-94-1	3,3'-Dichlorobenzidine	ND	290	
56-49-5	3-Methylcholanthrene	ND	290	
99-09-2	3-Nitroaniline	ND	290	
534-52-1	4,6-Dinitro-2-methylphenol	ND	290	
101-55-3	4-Bromophenyl-phenylether	ND	290	
59-50-7	4-Chloro-3-methylphenol	ND	290	
106-47-8	4-Chloroaniline	ND	290	
7005-72-3	4-Chlorophenyl-phenylether	ND	290	
100-01-6	4-Nitroaniline	ND	290	
100-02-7	4-Nitrophenol	ND	580	
56-57-5	4-nitroquinoline-1-oxide	ND	580	
83-32-9	Acenaphthene	**510**	290	
208-96-8	Acenaphthylene	**290**	290	
98-86-2	Acetophenone	ND	290	
62-53-3	Aniline	ND	290	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	85%
Dry Weight Extracted:	8.719 grams	Extract Dilution:	1
Wet Weight Extracted:	10.242 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1300**	290	
140-57-8	Aramite	ND	290	
103-33-3	Azobenzene	ND	290	
92-87-5	Benzidine	ND	290	
56-55-3	Benzo(a)anthracene	**4300**	290	
50-32-8	Benzo(a)pyrene	**4100**	290	
205-99-2	Benzo(b)fluoranthene	**4100**	290	
191-24-2	Benzo(g,h,i)perylene	**1900**	290	
207-08-9	Benzo(k)fluoranthene	**3600**	290	
65-85-0	Benzoic acid	ND	290	
100-51-6	Benzyl alcohol	ND	290	
111-44-4	Bis(2-Chloroethyl)ether	ND	290	
117-81-7	Bis(2-ethylhexyl)phthalate	**300**	290	
85-68-7	Butylbenzylphthalate	ND	290	
86-74-8	Carbazole	**660**	290	
510-15-6	Chlorobenzilate	ND	290	
218-01-9	Chrysene	**4900**	290	
84-74-2	Di-n-butylphthalate	ND	290	
117-84-0	Di-n-octyl phthalate	ND	290	
53-70-3	Dibenz(a,h)anthracene	**590**	290	
132-64-9	Dibenzofuran	**320**	290	
84-66-2	Diethylphthalate	ND	290	
131-11-3	Dimethyl phthalate	ND	290	
88-85-7	Dinoseb	ND	290	
62-50-0	Ethyl methanesulfonate	ND	290	
206-44-0	Fluoranthene	**8300**	290	
86-73-7	Fluorene	**490**	290	
118-74-1	Hexachlorobenzene	ND	290	
87-68-3	Hexachlorobutadiene	ND	290	
77-47-4	Hexachlorocyclopentadiene	ND	290	
67-72-1	Hexachloroethane	ND	290	
1888-71-7	Hexachloropropene	ND	290	
193-39-5	Indeno(1,2,3-cd)pyrene	**1900**	290	
465-73-6	Isodrin	ND	290	
78-59-1	Isophorone	ND	290	
120-58-1	Isosafrole	ND	290	
143-50-0	Kepone	ND	290	
66-27-3	Methyl methanesulfonate	ND	290	
86-30-6	N-Nitrosodiphenylamine	ND	290	
621-64-7	N-nitroso-di-n-propylamine	ND	290	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	85%
Dry Weight Extracted:	8.719 grams	Extract Dilution:	1
Wet Weight Extracted:	10.242 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	290	
91-20-3	Naphthalene	ND	290	
98-95-3	Nitrobenzene	ND	290	
608-93-5	Pentachlorobenzene	ND	290	
82-68-8	Pentachloronitrobenzene	ND	290	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	290	
85-01-8	Phenanthrene	**6000**	290	
108-95-2	Phenol	ND	290	
129-00-0	Pyrene	**7900**	290	
110-86-1	Pyridine	ND	290	
94-59-7	Safrole	ND	290	
111-91-1	bis(-2-Chloroethoxy)methane	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	68	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene 3,100 ppb J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	1 mL
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.537 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	520	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	520	
56-57-5	4-nitroquinoline-1-oxide	ND	520	
83-32-9	Acenaphthene	**660**	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	1 mL
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.537 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1400**	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**2700**	260	
50-32-8	Benzo(a)pyrene	**2300**	260	
205-99-2	Benzo(b)fluoranthene	**2100**	260	
191-24-2	Benzo(g,h,i)perylene	**950**	260	
207-08-9	Benzo(k)fluoranthene	**2000**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	**720**	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**3000**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	**320**	260	
132-64-9	Dibenzofuran	**550**	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**6200**	260	
86-73-7	Fluorene	**690**	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**1000**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	1 mL
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.537 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	**300**	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**6300**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**5500**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	86%
Dry Weight Extracted:	8.874 grams	Extract Dilution:	1
Wet Weight Extracted:	10.260 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	86%
Dry Weight Extracted:	8.874 grams	Extract Dilution:	1
Wet Weight Extracted:	10.260 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**440**	280	
50-32-8	Benzo(a)pyrene	**480**	280	
205-99-2	Benzo(b)fluoranthene	**480**	280	
191-24-2	Benzo(g,h,i)perylene	ND	280	
207-08-9	Benzo(k)fluoranthene	**390**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	ND	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**520**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**730**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	86%
Dry Weight Extracted:	8.874 grams	Extract Dilution:	1
Wet Weight Extracted:	10.260 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**350**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**690**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	58	22 - 97
Phenol-d6 (SS2)	58	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	92%
Dry Weight Extracted:	9.366 grams	Extract Dilution:	1
Wet Weight Extracted:	10.204 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	530	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	530	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	**290**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	92%
Dry Weight Extracted:	9.366 grams	Extract Dilution:	1
Wet Weight Extracted:	10.204 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**790**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**3000**	270	
50-32-8	Benzo(a)pyrene	**2900**	270	
205-99-2	Benzo(b)fluoranthene	**2800**	270	
191-24-2	Benzo(g,h,i)perylene	**1200**	270	
207-08-9	Benzo(k)fluoranthene	**2800**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	**770**	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**400**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**3500**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	**400**	270	
132-64-9	Dibenzofuran	ND	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**5900**	270	
86-73-7	Fluorene	**300**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	92%
Dry Weight Extracted:	9.366 grams	Extract Dilution:	1
Wet Weight Extracted:	10.204 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	ND	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**4000**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**5500**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	88	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	2,900 ppb	J

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID: 12060001-0007
Date of Collection: 8/22/2012
Date of Extraction: 8/27/12
Date of Analysis: 8/27/12
Dry Weight Extracted: 9.226 grams
Wet Weight Extracted: 10.202 grams

Lab Sample ID: AB32128
Matrix Soil
Volume Purged: N/A
Percent Solids: 90%
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	540	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	540	
56-57-5	4-nitroquinoline-1-oxide	ND	540	
83-32-9	Acenaphthene	**670**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	90%
Dry Weight Extracted:	9.226 grams	Extract Dilution:	1
Wet Weight Extracted:	10.202 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1600**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**4600**	270	
50-32-8	Benzo(a)pyrene	**4200**	270	
205-99-2	Benzo(b)fluoranthene	**4800**	270	
191-24-2	Benzo(g,h,i)perylene	**1700**	270	
207-08-9	Benzo(k)fluoranthene	**4000**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**830**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**5200**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	**560**	270	
132-64-9	Dibenzofuran	**500**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**9200**	270	
86-73-7	Fluorene	**650**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**1800**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	90%
Dry Weight Extracted:	9.226 grams	Extract Dilution:	1
Wet Weight Extracted:	10.202 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	ND	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**7800**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**8600**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	95	12 - 127
p-Terphenyl-d14 (SS6)	100	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	3,700	ppb	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	100%
Dry Weight Extracted:	10.248 grams	Extract Dilution:	1
Wet Weight Extracted:	10.252 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	240	
120-82-1	1,2,4-Trichlorobenzene	ND	240	
95-50-1	1,2-Dichlorobenzene	ND	240	
541-73-1	1,3-Dichlorobenzene	ND	240	
99-65-0	1,3-Dinitrobenzene	ND	240	
106-46-7	1,4-Dichlorobenzene	ND	240	
130-15-4	1,4-Naphthoquinone	ND	240	
90-12-0	1-Methylnaphthalene	ND	240	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	240	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	240	
95-95-4	2,4,5-Trichlorophenol	ND	240	
88-06-2	2,4,6-Trichlorophenol	ND	240	
120-83-2	2,4-Dichlorophenol	ND	240	
51-28-5	2,4-Dinitrophenol	ND	980	
121-14-2	2,4-Dinitrotoluene	ND	240	
105-67-9	2,4-dimethylphenol	ND	240	
87-65-0	2,6-Dichlorophenol	ND	240	
606-20-2	2,6-Dinitrotoluene	ND	240	
91-58-7	2-Chloronaphthalene	ND	240	
95-57-8	2-Chlorophenol	ND	240	
91-57-6	2-Methylnaphthalene	ND	240	
95-48-7	2-Methylphenol	ND	240	
88-74-4	2-Nitroaniline	ND	240	
88-75-5	2-Nitrophenol	ND	240	
108-39-4/106-44-	3&4-Methylphenol	ND	490	
91-94-1	3,3'-Dichlorobenzidine	ND	240	
56-49-5	3-Methylcholanthrene	ND	240	
99-09-2	3-Nitroaniline	ND	240	
534-52-1	4,6-Dinitro-2-methylphenol	ND	240	
101-55-3	4-Bromophenyl-phenylether	ND	240	
59-50-7	4-Chloro-3-methylphenol	ND	240	
106-47-8	4-Chloroaniline	ND	240	
7005-72-3	4-Chlorophenyl-phenylether	ND	240	
100-01-6	4-Nitroaniline	ND	240	
100-02-7	4-Nitrophenol	ND	490	
56-57-5	4-nitroquinoline-1-oxide	ND	490	
83-32-9	Acenaphthene	ND	240	
208-96-8	Acenaphthylene	ND	240	
98-86-2	Acetophenone	ND	240	
62-53-3	Aniline	ND	240	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	100%
Dry Weight Extracted:	10.248 grams	Extract Dilution:	1
Wet Weight Extracted:	10.252 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	240	
140-57-8	Aramite	ND	240	
103-33-3	Azobenzene	ND	240	
92-87-5	Benzidine	ND	240	
56-55-3	Benzo(a)anthracene	ND	240	
50-32-8	Benzo(a)pyrene	ND	240	
205-99-2	Benzo(b)fluoranthene	ND	240	
191-24-2	Benzo(g,h,i)perylene	ND	240	
207-08-9	Benzo(k)fluoranthene	ND	240	
65-85-0	Benzoic acid	ND	240	
100-51-6	Benzyl alcohol	ND	240	
111-44-4	Bis(2-Chloroethyl)ether	ND	240	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	240	
85-68-7	Butylbenzylphthalate	ND	240	
86-74-8	Carbazole	ND	240	
510-15-6	Chlorobenzilate	ND	240	
218-01-9	Chrysene	ND	240	
84-74-2	Di-n-butylphthalate	ND	240	
117-84-0	Di-n-octyl phthalate	ND	240	
53-70-3	Dibenz(a,h)anthracene	ND	240	
132-64-9	Dibenzofuran	ND	240	
84-66-2	Diethylphthalate	ND	240	
131-11-3	Dimethyl phthalate	ND	240	
88-85-7	Dinoseb	ND	240	
62-50-0	Ethyl methanesulfonate	ND	240	
206-44-0	Fluoranthene	ND	240	
86-73-7	Fluorene	ND	240	
118-74-1	Hexachlorobenzene	ND	240	
87-68-3	Hexachlorobutadiene	ND	240	
77-47-4	Hexachlorocyclopentadiene	ND	240	
67-72-1	Hexachloroethane	ND	240	
1888-71-7	Hexachloropropene	ND	240	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	
465-73-6	Isodrin	ND	240	
78-59-1	Isophorone	ND	240	
120-58-1	Isosafrole	ND	240	
143-50-0	Kepone	ND	240	
66-27-3	Methyl methanesulfonate	ND	240	
86-30-6	N-Nitrosodiphenylamine	ND	240	
621-64-7	N-nitroso-di-n-propylamine	ND	240	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	100%
Dry Weight Extracted:	10.248 grams	Extract Dilution:	1
Wet Weight Extracted:	10.252 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	240	
91-20-3	Naphthalene	ND	240	
98-95-3	Nitrobenzene	ND	240	
608-93-5	Pentachlorobenzene	ND	240	
82-68-8	Pentachloronitrobenzene	ND	240	
87-86-5	Pentachlorophenol	ND	980	
62-44-2	Phenacetin	ND	240	
85-01-8	Phenanthrene	ND	240	
108-95-2	Phenol	ND	240	
129-00-0	Pyrene	ND	240	
110-86-1	Pyridine	ND	240	
94-59-7	Safrole	ND	240	
111-91-1	bis(-2-Chloroethoxy)methane	ND	240	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	66	22 - 97
Phenol-d6 (SS2)	71	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	82	23 - 104
2,4,6-Tribromophenol (SS5)	52	12 - 127
p-Terphenyl-d14 (SS6)	100	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	96%
Dry Weight Extracted:	9.788 grams	Extract Dilution:	1
Wet Weight Extracted:	10.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	510	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	510	
56-57-5	4-nitroquinoline-1-oxide	**420**	510	
83-32-9	Acenaphthene	**420**	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
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Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	96%
Dry Weight Extracted:	9.788 grams	Extract Dilution:	1
Wet Weight Extracted:	10.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1200**	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**2800**	260	
50-32-8	Benzo(a)pyrene	**2400**	260	
205-99-2	Benzo(b)fluoranthene	**2100**	260	
191-24-2	Benzo(g,h,i)perylene	**1400**	260	
207-08-9	Benzo(k)fluoranthene	**2000**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	**460**	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**3100**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	**430**	260	
132-64-9	Dibenzofuran	**370**	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**6000**	260	
86-73-7	Fluorene	**410**	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	96%
Dry Weight Extracted:	9.788 grams	Extract Dilution:	1
Wet Weight Extracted:	10.245 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**5200**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**5100**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	70	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	2,400	ppb	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	94%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.209 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	520	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	520	
56-57-5	4-nitroquinoline-1-oxide	ND	520	
83-32-9	Acenaphthene	ND	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	94%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.209 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**330**	260	
50-32-8	Benzo(a)pyrene	**300**	260	
205-99-2	Benzo(b)fluoranthene	**330**	260	
191-24-2	Benzo(g,h,i)perylene	ND	260	
207-08-9	Benzo(k)fluoranthene	**270**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	ND	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**420**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	ND	260	
132-64-9	Dibenzofuran	ND	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**590**	260	
86-73-7	Fluorene	ND	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	94%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.209 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**310**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**580**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	63	22 - 97
Phenol-d6 (SS2)	60	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.549 grams	Extract Dilution:	1
Wet Weight Extracted:	10.246 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	520	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	520	
56-57-5	4-nitroquinoline-1-oxide	ND	520	
83-32-9	Acenaphthene	**450**	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.549 grams	Extract Dilution:	1
Wet Weight Extracted:	10.246 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1100**	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**3500**	260	
50-32-8	Benzo(a)pyrene	**3100**	260	
205-99-2	Benzo(b)fluoranthene	**3400**	260	
191-24-2	Benzo(g,h,i)perylene	**1300**	260	
207-08-9	Benzo(k)fluoranthene	**3200**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	**550**	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	**520**	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**3800**	260	
84-74-2	Di-n-butylphthalate	**280**	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	**420**	260	
132-64-9	Dibenzofuran	**270**	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**6400**	260	
86-73-7	Fluorene	**420**	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	93%
Dry Weight Extracted:	9.549 grams	Extract Dilution:	1
Wet Weight Extracted:	10.246 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**4700**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**6100**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	70	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	88	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	95%
Dry Weight Extracted:	9.784 grams	Extract Dilution:	1
Wet Weight Extracted:	10.314 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	510	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	510	
56-57-5	4-nitroquinoline-1-oxide	ND	510	
83-32-9	Acenaphthene	ND	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	95%
Dry Weight Extracted:	9.784 grams	Extract Dilution:	1
Wet Weight Extracted:	10.314 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**430**	260	
50-32-8	Benzo(a)pyrene	**390**	260	
205-99-2	Benzo(b)fluoranthene	**450**	260	
191-24-2	Benzo(g,h,i)perylene	ND	260	
207-08-9	Benzo(k)fluoranthene	**360**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	ND	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**490**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	ND	260	
132-64-9	Dibenzofuran	ND	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**920**	260	
86-73-7	Fluorene	ND	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	95%
Dry Weight Extracted:	9.784 grams	Extract Dilution:	1
Wet Weight Extracted:	10.314 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**680**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**860**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	75	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	87%
Dry Weight Extracted:	8.990 grams	Extract Dilution:	1
Wet Weight Extracted:	10.365 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	**640**	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	87%
Dry Weight Extracted:	8.990 grams	Extract Dilution:	1
Wet Weight Extracted:	10.365 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1200**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**2800**	280	
50-32-8	Benzo(a)pyrene	**2600**	280	
205-99-2	Benzo(b)fluoranthene	**2200**	280	
191-24-2	Benzo(g,h,i)perylene	**1600**	280	
207-08-9	Benzo(k)fluoranthene	**1900**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	**420**	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**2900**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	**490**	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**5700**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**1500**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	87%
Dry Weight Extracted:	8.990 grams	Extract Dilution:	1
Wet Weight Extracted:	10.365 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**3900**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**4900**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	188	22 - 97
Phenol-d6 (SS2)	188	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	213	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0013	Lab Sample ID:	AB32134
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.499 grams	Extract Dilution:	1
Wet Weight Extracted:	10.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	590	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	590	
56-57-5	4-nitroquinoline-1-oxide	ND	590	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0013	Lab Sample ID:	AB32134
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.499 grams	Extract Dilution:	1
Wet Weight Extracted:	10.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**300**	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1400**	300	
50-32-8	Benzo(a)pyrene	**1500**	300	
205-99-2	Benzo(b)fluoranthene	**1600**	300	
191-24-2	Benzo(g,h,i)perylene	**820**	300	
207-08-9	Benzo(k)fluoranthene	**1500**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	**2200**	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1500**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**2900**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**740**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0013	Lab Sample ID:	AB32134
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.499 grams	Extract Dilution:	1
Wet Weight Extracted:	10.195 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	**740**	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**1700**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**2900**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	68	22 - 97
Phenol-d6 (SS2)	65	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	83	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.656 grams	Extract Dilution:	1
Wet Weight Extracted:	10.458 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	290	
120-82-1	1,2,4-Trichlorobenzene	ND	290	
95-50-1	1,2-Dichlorobenzene	ND	290	
541-73-1	1,3-Dichlorobenzene	ND	290	
99-65-0	1,3-Dinitrobenzene	ND	290	
106-46-7	1,4-Dichlorobenzene	ND	290	
130-15-4	1,4-Naphthoquinone	ND	290	
90-12-0	1-Methylnaphthalene	ND	290	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	290	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	290	
95-95-4	2,4,5-Trichlorophenol	ND	290	
88-06-2	2,4,6-Trichlorophenol	ND	290	
120-83-2	2,4-Dichlorophenol	ND	290	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	290	
105-67-9	2,4-dimethylphenol	ND	290	
87-65-0	2,6-Dichlorophenol	ND	290	
606-20-2	2,6-Dinitrotoluene	ND	290	
91-58-7	2-Chloronaphthalene	ND	290	
95-57-8	2-Chlorophenol	ND	290	
91-57-6	2-Methylnaphthalene	ND	290	
95-48-7	2-Methylphenol	ND	290	
88-74-4	2-Nitroaniline	ND	290	
88-75-5	2-Nitrophenol	ND	290	
108-39-4/106-44-	3&4-Methylphenol	ND	580	
91-94-1	3,3'-Dichlorobenzidine	ND	290	
56-49-5	3-Methylcholanthrene	ND	290	
99-09-2	3-Nitroaniline	ND	290	
534-52-1	4,6-Dinitro-2-methylphenol	ND	290	
101-55-3	4-Bromophenyl-phenylether	ND	290	
59-50-7	4-Chloro-3-methylphenol	ND	290	
106-47-8	4-Chloroaniline	ND	290	
7005-72-3	4-Chlorophenyl-phenylether	ND	290	
100-01-6	4-Nitroaniline	ND	290	
100-02-7	4-Nitrophenol	ND	580	
56-57-5	4-nitroquinoline-1-oxide	ND	580	
83-32-9	Acenaphthene	**800**	290	
208-96-8	Acenaphthylene	ND	290	
98-86-2	Acetophenone	ND	290	
62-53-3	Aniline	ND	290	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.656 grams	Extract Dilution:	1
Wet Weight Extracted:	10.458 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1700**	290	
140-57-8	Aramite	ND	290	
103-33-3	Azobenzene	ND	290	
92-87-5	Benzidine	ND	290	
56-55-3	Benzo(a)anthracene	**4400**	290	
50-32-8	Benzo(a)pyrene	**3900**	290	
205-99-2	Benzo(b)fluoranthene	**4700**	290	
191-24-2	Benzo(g,h,i)perylene	**1600**	290	
207-08-9	Benzo(k)fluoranthene	**4000**	290	
65-85-0	Benzoic acid	ND	290	
100-51-6	Benzyl alcohol	ND	290	
111-44-4	Bis(2-Chloroethyl)ether	ND	290	
117-81-7	Bis(2-ethylhexyl)phthalate	**3800**	290	
85-68-7	Butylbenzylphthalate	ND	290	
86-74-8	Carbazole	**960**	290	
510-15-6	Chlorobenzilate	ND	290	
218-01-9	Chrysene	**5100**	290	
84-74-2	Di-n-butylphthalate	ND	290	
117-84-0	Di-n-octyl phthalate	ND	290	
53-70-3	Dibenz(a,h)anthracene	**540**	290	
132-64-9	Dibenzofuran	**630**	290	
84-66-2	Diethylphthalate	ND	290	
131-11-3	Dimethyl phthalate	ND	290	
88-85-7	Dinoseb	ND	290	
62-50-0	Ethyl methanesulfonate	ND	290	
206-44-0	Fluoranthene	**9100**	290	
86-73-7	Fluorene	**800**	290	
118-74-1	Hexachlorobenzene	ND	290	
87-68-3	Hexachlorobutadiene	ND	290	
77-47-4	Hexachlorocyclopentadiene	ND	290	
67-72-1	Hexachloroethane	ND	290	
1888-71-7	Hexachloropropene	ND	290	
193-39-5	Indeno(1,2,3-cd)pyrene	**1600**	290	
465-73-6	Isodrin	ND	290	
78-59-1	Isophorone	ND	290	
120-58-1	Isosafrole	ND	290	
143-50-0	Kepone	ND	290	
66-27-3	Methyl methanesulfonate	ND	290	
86-30-6	N-Nitrosodiphenylamine	ND	290	
621-64-7	N-nitroso-di-n-propylamine	ND	290	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	83%
Dry Weight Extracted:	8.656 grams	Extract Dilution:	1
Wet Weight Extracted:	10.458 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	**760**	290	
91-20-3	Naphthalene	**400**	290	
98-95-3	Nitrobenzene	ND	290	
608-93-5	Pentachlorobenzene	ND	290	
82-68-8	Pentachloronitrobenzene	ND	290	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	290	
85-01-8	Phenanthrene	**8800**	290	
108-95-2	Phenol	ND	290	
129-00-0	Pyrene	**8900**	290	
110-86-1	Pyridine	ND	290	
94-59-7	Safrole	ND	290	
111-91-1	bis(-2-Chloroethoxy)methane	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	80	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	80	20 - 98
2-Fluorobiphenyl (SS4)	90	23 - 104
2,4,6-Tribromophenol (SS5)	100	12 - 127
p-Terphenyl-d14 (SS6)	105	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	82%
Dry Weight Extracted:	8.427 grams	Extract Dilution:	1
Wet Weight Extracted:	10.285 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	590	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	590	
56-57-5	4-nitroquinoline-1-oxide	ND	590	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	82%
Dry Weight Extracted:	8.427 grams	Extract Dilution:	1
Wet Weight Extracted:	10.285 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**660**	300	
50-32-8	Benzo(a)pyrene	**670**	300	
205-99-2	Benzo(b)fluoranthene	**860**	300	
191-24-2	Benzo(g,h,i)perylene	**310**	300	
207-08-9	Benzo(k)fluoranthene	ND	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**810**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**1000**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**300**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	82%
Dry Weight Extracted:	8.427 grams	Extract Dilution:	1
Wet Weight Extracted:	10.285 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**490**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**1000**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	63	22 - 97
Phenol-d6 (SS2)	63	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	75	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	87%
Dry Weight Extracted:	8.894 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	87%
Dry Weight Extracted:	8.894 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**1200**	280	
50-32-8	Benzo(a)pyrene	**1100**	280	
205-99-2	Benzo(b)fluoranthene	**1300**	280	
191-24-2	Benzo(g,h,i)perylene	**430**	280	
207-08-9	Benzo(k)fluoranthene	**1100**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	ND	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**1300**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**2300**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**460**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/27/12	Percent Solids:	87%
Dry Weight Extracted:	8.894 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**1000**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**2300**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	78	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	95	12 - 127
p-Terphenyl-d14 (SS6)	105	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.387 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	520	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	520	
56-57-5	4-nitroquinoline-1-oxide	ND	520	
83-32-9	Acenaphthene	**820**	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.387 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1700**	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**3500**	260	
50-32-8	Benzo(a)pyrene	**2900**	260	
205-99-2	Benzo(b)fluoranthene	**2900**	260	
191-24-2	Benzo(g,h,i)perylene	**1600**	260	
207-08-9	Benzo(k)fluoranthene	**2600**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	**460**	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	**900**	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**3900**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	**520**	260	
132-64-9	Dibenzofuran	**640**	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**6700**	260	
86-73-7	Fluorene	**830**	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**1600**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.624 grams	Extract Dilution:	1
Wet Weight Extracted:	10.387 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	**290**	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**6300**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**5900**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene 2,300 ppb J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	90%
Dry Weight Extracted:	9.167 grams	Extract Dilution:	1
Wet Weight Extracted:	10.174 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	550	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	550	
56-57-5	4-nitroquinoline-1-oxide	ND	550	
83-32-9	Acenaphthene	ND	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	90%
Dry Weight Extracted:	9.167 grams	Extract Dilution:	1
Wet Weight Extracted:	10.174 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**330**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**740**	270	
50-32-8	Benzo(a)pyrene	**590**	270	
205-99-2	Benzo(b)fluoranthene	**550**	270	
191-24-2	Benzo(g,h,i)perylene	**390**	270	
207-08-9	Benzo(k)fluoranthene	**460**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	ND	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**830**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	ND	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**1700**	270	
86-73-7	Fluorene	ND	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**360**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	90%
Dry Weight Extracted:	9.167 grams	Extract Dilution:	1
Wet Weight Extracted:	10.174 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	ND	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**1500**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**1300**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	68	22 - 97
Phenol-d6 (SS2)	73	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	78	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	91%
Dry Weight Extracted:	9.263 grams	Extract Dilution:	1
Wet Weight Extracted:	10.230 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	540	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	540	
56-57-5	4-nitroquinoline-1-oxide	ND	540	
83-32-9	Acenaphthene	ND	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	91%
Dry Weight Extracted:	9.263 grams	Extract Dilution:	1
Wet Weight Extracted:	10.230 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	ND	270	
50-32-8	Benzo(a)pyrene	ND	270	
205-99-2	Benzo(b)fluoranthene	ND	270	
191-24-2	Benzo(g,h,i)perylene	ND	270	
207-08-9	Benzo(k)fluoranthene	ND	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	ND	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**330**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	ND	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**530**	270	
86-73-7	Fluorene	ND	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	91%
Dry Weight Extracted:	9.263 grams	Extract Dilution:	1
Wet Weight Extracted:	10.230 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	ND	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**380**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**420**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	81	22 - 97
Phenol-d6 (SS2)	82	23 - 99
Nitrobenzene-d5 (SS3)	50	20 - 98
2-Fluorobiphenyl (SS4)	55	23 - 104
2,4,6-Tribromophenol (SS5)	83	12 - 127
p-Terphenyl-d14 (SS6)	60	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	79%
Dry Weight Extracted:	8.292 grams	Extract Dilution:	1
Wet Weight Extracted:	10.516 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	610	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	610	
56-57-5	4-nitroquinoline-1-oxide	ND	610	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	79%
Dry Weight Extracted:	8.292 grams	Extract Dilution:	1
Wet Weight Extracted:	10.516 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**530**	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1400**	300	
50-32-8	Benzo(a)pyrene	**1200**	300	
205-99-2	Benzo(b)fluoranthene	**1200**	300	
191-24-2	Benzo(g,h,i)perylene	**730**	300	
207-08-9	Benzo(k)fluoranthene	**990**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1600**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**3200**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**730**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	79%
Dry Weight Extracted:	8.292 grams	Extract Dilution:	1
Wet Weight Extracted:	10.516 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**2600**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**2600**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	54	22 - 97
Phenol-d6 (SS2)	54	23 - 99
Nitrobenzene-d5 (SS3)	35	20 - 98
2-Fluorobiphenyl (SS4)	40	23 - 104
2,4,6-Tribromophenol (SS5)	61	12 - 127
p-Terphenyl-d14 (SS6)	42	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0023	Lab Sample ID:	AB32144
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	86%
Dry Weight Extracted:	8.784 grams	Extract Dilution:	1
Wet Weight Extracted:	10.220 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	570	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	570	
56-57-5	4-nitroquinoline-1-oxide	ND	570	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0023	Lab Sample ID:	AB32144
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	86%
Dry Weight Extracted:	8.784 grams	Extract Dilution:	1
Wet Weight Extracted:	10.220 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**440**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**1500**	280	
50-32-8	Benzo(a)pyrene	**1300**	280	
205-99-2	Benzo(b)fluoranthene	**1300**	280	
191-24-2	Benzo(g,h,i)perylene	**720**	280	
207-08-9	Benzo(k)fluoranthene	**980**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	ND	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**1800**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**3400**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**750**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0023		Lab Sample ID:	AB32144
Date of Collection:	8/22/2012		Matrix	Soil
Date of Extraction:	8/27/12		Volume Purged:	N/A
Date of Analysis:	8/28/12		Percent Solids:	86%
Dry Weight Extracted:	8.784 grams		Extract Dilution:	1
Wet Weight Extracted:	10.220 grams		pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**2400**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**2900**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	111	22 - 97
Phenol-d6 (SS2)	112	23 - 99
Nitrobenzene-d5 (SS3)	74	20 - 98
2-Fluorobiphenyl (SS4)	79	23 - 104
2,4,6-Tribromophenol (SS5)	128	12 - 127
p-Terphenyl-d14 (SS6)	91	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID: 12060001-0024
Date of Collection: 8/22/2012
Date of Extraction: 8/27/12
Date of Analysis: 8/28/12
Dry Weight Extracted: 8.432 grams
Wet Weight Extracted: 10.274 grams

Lab Sample ID: AB32145
Matrix Soil
Volume Purged: N/A
Percent Solids: 82%
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	590	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	590	
56-57-5	4-nitroquinoline-1-oxide	ND	590	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0024	Lab Sample ID:	AB32145
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	82%
Dry Weight Extracted:	8.432 grams	Extract Dilution:	1
Wet Weight Extracted:	10.274 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	ND	300	
50-32-8	Benzo(a)pyrene	ND	300	
205-99-2	Benzo(b)fluoranthene	ND	300	
191-24-2	Benzo(g,h,i)perylene	ND	300	
207-08-9	Benzo(k)fluoranthene	ND	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**300**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**550**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0024	Lab Sample ID:	AB32145
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	82%
Dry Weight Extracted:	8.432 grams	Extract Dilution:	1
Wet Weight Extracted:	10.274 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**300**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**460**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	93	22 - 97
Phenol-d6 (SS2)	93	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	99	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32129

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	4,080	ND	3200	78	47 - 97
1,2,4-Trichlorobenzene	4,080	ND	3000	74	46 - 95
1,2-Dichlorobenzene	4,080	ND	2700	66	42 - 90
1,3-Dichlorobenzene	4,080	ND	2600	64	41 - 86
1,3-Dinitrobenzene	4,080	ND	3200	78	36 - 117
1,4-Dichlorobenzene	4,080	ND	2700	66	41 - 86
1,4-Naphthoquinone	4,080	ND	3100	76	10 - 123
1-Methylnaphthalene	4,080	ND	3200	78	49 - 99
2,2'-oxybis(1-chloropropane)	4,080	ND	2900	71	35 - 117
2,3,4,6-Tetrachlorophenol	4,080	ND	3500	86	7.7 - 168
2,4,5-Trichlorophenol	4,080	ND	3200	78	54 - 103
2,4,6-Trichlorophenol	4,080	ND	3100	76	33 - 119
2,4-Dichlorophenol	4,080	ND	3000	74	42 - 107
2,4-Dinitrophenol	4,080	ND	1200	29	10 - 114
2,4-Dinitrotoluene	4,080	ND	3500	86	29 - 129
2,4-dimethylphenol	4,080	ND	2700	66	35 - 105
2,6-Dichlorophenol	4,080	ND	3000	74	28 - 114
2,6-Dinitrotoluene	4,080	ND	3300	81	57 - 105
2-Chloronaphthalene	4,080	ND	3200	78	45 - 108
2-Chlorophenol	4,080	ND	3000	74	41 - 102
2-Methylnaphthalene	4,080	ND	3100	76	43 - 101
2-Methylphenol	4,080	ND	3000	74	45 - 102
2-Nitroaniline	4,080	ND	3200	78	40 - 142
2-Nitrophenol	4,080	ND	2900	71	48 - 99
3&4-Methylphenol	8,160	ND	6200	76	10 - 154
3,3'-Dichlorobenzidine	4,080	ND	2200	54	10 - 137
3-Methylcholanthrene	4,080	ND	2900	71	25 - 123
3-Nitroaniline	4,080	ND	2900	71	30 - 114
4,6-Dinitro-2-methylphenol	4,080	ND	2000	49	10 - 115
4-Bromophenyl-phenylether	4,080	ND	3300	81	48 - 116
4-Chloro-3-methylphenol	4,080	ND	3000	74	43 - 112
4-Chloroaniline	4,080	ND	2300	56	17 - 94
4-Chlorophenyl-phenylether	4,080	ND	3300	81	52 - 103
4-Nitroaniline	4,080	ND	3000	74	17 - 117
4-Nitrophenol	4,080	ND	2300	56	17 - 141
4-nitroquinoline-1-oxide	4,080	420	2400	49	4.4 - 101
Acenaphthene	4,080	420	3500	76	53 - 101
Acenaphthylene	4,080	ND	3300	81	56 - 99
Acetophenone	4,080	ND	3000	74	46 - 101
Aniline	4,080	ND	1700	42	10 - 90
Anthracene	4,080	1200	3800	64	58 - 108
Aramite	4,080	ND	3200	78	39 - 118
Azobenzene	4,080	ND	3000	74	53 - 117
Benzidine	4,080	ND	ND	ND	10 - 41
Benzo(a)anthracene	4,080	2800	5100	56	50 - 112
Benzo(a)pyrene	4,080	2400	4700	56	34 - 122
Benzo(b)fluoranthene	4,080	2100	4700	64	42 - 120
Benzo(g,h,i)perylene	4,080	1400	3600	54	50 - 108

Benzo(k)fluoranthene	4,080	2000	4300	56	33 - 116
Benzoic acid	4,080	ND	260	6	10 - 168
Benzyl alcohol	4,080	ND	2000	49	18 - 131
Bis(2-Chloroethyl)ether	4,080	ND	2900	71	45 - 98
Bis(2-ethylhexyl)phthalate	4,080	ND	3200	78	22 - 151
Butylbenzylphthalate	4,080	ND	3200	78	56 - 120
Carbazole	4,080	460	3600	77	52 - 114
Chlorobenzilate	4,080	ND	3400	83	50 - 129
Chrysene	4,080	3100	5200	52	43 - 111
Di-n-butylphthalate	4,080	ND	3300	81	57 - 125
Di-n-octyl phthalate	4,080	ND	3300	81	39 - 128
Dibenz(a,h)anthracene	4,080	430	3100	65	31 - 129
Dibenzofuran	4,080	370	3500	77	53 - 100
Diethylphthalate	4,080	ND	3300	81	54 - 106
Dimethyl phthalate	4,080	ND	3300	81	54 - 104
Dinoseb	4,080	ND	2900	71	6.4 - 114
Ethyl methanesulfonate	4,080	ND	2900	71	46 - 100
Fluoranthene	4,080	6000	7100	27	43 - 126
Fluorene	4,080	410	3600	78	57 - 103
Hexachlorobenzene	4,080	ND	3300	81	46 - 113
Hexachlorobutadiene	4,080	ND	3000	74	44 - 93
Hexachlorocyclopentadiene	4,080	ND	2700	66	10 - 115
Hexachloroethane	4,080	ND	2600	64	36 - 88
Hexachloropropene	4,080	ND	2800	69	10 - 112
Indeno(1,2,3-cd)pyrene	4,080	1300	3800	61	29 - 131
Isodrin	4,080	ND	3200	78	6.7 - 141
Isophorone	4,080	ND	3000	74	52 - 108
Isosafrole	4,080	ND	3100	76	49 - 97
Kepone	4,080	ND	ND	ND	10 - 126
Methyl methanesulfonate	4,080	ND	2700	66	15 - 112
N-Nitrosodiphenylamine	4,080	ND	3100	76	50 - 107
N-nitroso-di-n-propylamine	4,080	ND	2900	71	45 - 108
N-nitrosodimethylamine	4,080	ND	2600	64	34 - 90
Naphthalene	4,080	ND	3300	81	43 - 100
Nitrobenzene	4,080	ND	2900	71	46 - 103
Pentachlorobenzene	4,080	ND	3300	81	50 - 101
Pentachloronitrobenzene	4,080	ND	3300	81	51 - 119
Pentachlorophenol	4,080	ND	4300	105	6.2 - 128
Phenacetin	4,080	ND	3200	78	54 - 124
Phenanthrene	4,080	5200	6400	29	47 - 119
Phenol	4,080	ND	2900	71	48 - 97
Pyrene	4,080	5100	6600	37	49 - 117
Pyridine	4,080	ND	1600	39	14 - 67
Safrole	4,080	ND	3100	76	49 - 103
bis(-2-Chloroethoxy)methane	4,080	ND	3000	74	47 - 102

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32129

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	420	ND	ND	50
Acenaphthene	420	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	1200	319.6	115.9	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	2800	1476.5	61.9	50
Benzo(a)pyrene	2400	1402.6	52.5	50
Benzo(b)fluoranthene	2100	1342.7	44.0	50
Benzo(g,h,i)perylene	1400	847.2	49.2	50
Benzo(k)fluoranthene	2000	1221.8	48.3	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	460	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	3100	1655.4	60.8	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	430	ND	ND	50
Dibenzofuran	370	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	6000	2677.3	76.6	50
Fluorene	410	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	1300	778.4	50.2	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	5200	1413.8	114.5	50
Phenol	ND	ND	ND	50
Pyrene	5100	2426.5	71.0	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	3912	3300	84	41 - 113
1,2,4-Trichlorobenzene	3912	3160	81	39 - 111
1,2-Dichlorobenzene	3912	2950	75	36 - 106
1,3-Dichlorobenzene	3912	2840	73	35 - 103
1,3-Dinitrobenzene	3912	3410	87	26 - 138
1,4-Dichlorobenzene	3912	2900	74	35 - 103
1,4-Naphthoquinone	3912	3400	87	37 - 134
1-Methylnaphthalene	3912	3320	85	41 - 117
2,2'-oxybis(1-chloropropane)	3912	3030	78	30 - 134
2,3,4,6-Tetrachlorophenol	3912	3860	99	16 - 153
2,4,5-Trichlorophenol	3912	3410	87	38 - 122
2,4,6-Trichlorophenol	3912	3270	84	39 - 121
2,4-Dichlorophenol	3912	3210	82	40 - 118
2,4-Dinitrophenol	3912	1380	35	10 - 71
2,4-Dinitrotoluene	3912	3680	94	47 - 127
2,4-dimethylphenol	3912	2480	63	30 - 120
2,6-Dichlorophenol	3912	3160	81	40 - 116
2,6-Dinitrotoluene	3912	3520	90	46 - 128
2-Chloronaphthalene	3912	3330	85	42 - 125
2-Chlorophenol	3912	3100	79	41 - 115
2-Methylnaphthalene	3912	3270	84	35 - 120
2-Methylphenol	3912	3070	79	40 - 119
2-Nitroaniline	3912	3350	86	29 - 163
2-Nitrophenol	3912	3070	79	35 - 115
3&4-Methylphenol	7824	6570	84	3.5 - 149
3,3'-Dichlorobenzidine	3912	2810	72	29 - 114
3-Methylcholanthrene	3912	3360	86	40 - 126
3-Nitroaniline	3912	3070	79	44 - 120
4,6-Dinitro-2-methylphenol	3912	2430	62	10 - 97
4-Bromophenyl-phenylether	3912	3510	90	40 - 133
4-Chloro-3-methylphenol	3912	3190	82	36 - 133
4-Chloroaniline	3912	2440	62	28 - 99
4-Chlorophenyl-phenylether	3912	3460	88	45 - 119
4-Nitroaniline	3912	3350	86	37 - 131
4-Nitrophenol	3912	2400	61	15 - 141
4-nitroquinoline-1-oxide	3912	2790	71	19 - 118
Acenaphthene	3912	3350	86	44 - 119
Acenaphthylene	3912	3390	87	44 - 121
Acetophenone	3912	3170	81	41 - 115
Aniline	3912	2070	53	20 - 99
Anthracene	3912	3550	91	40 - 137
Aramite	3912	3440	88	37 - 118
Azobenzene	3912	3200	82	41 - 141
Benzidine	3912	438	11	2 - 76
Benzo(a)anthracene	3912	3590	92	46 - 128
Benzo(a)pyrene	3912	3620	93	49 - 124
Benzo(b)fluoranthene	3912	3710	95	41 - 135
Benzo(g,h,i)perylene	3912	2880	74	47 - 123
Benzo(k)fluoranthene	3912	3940	101	50 - 114
Benzoic acid	3912	447	11	10 - 122
Benzyl alcohol	3912	2650	68	28 - 129
Bis(2-Chloroethyl)ether	3912	3040	78	40 - 112

Bis(2-ethylhexyl)phthalate	3912	3450	88	38 - 143
Butylbenzylphthalate	3912	3550	91	40 - 143
Carbazole	3912	3680	94	42 - 133
Chlorobenzilate	3912	3560	91	45 - 139
Chrysene	3912	3620	93	47 - 118
Di-n-butylphthalate	3912	3640	93	33 - 183
Di-n-octyl phthalate	3912	3830	98	44 - 125
Dibenz(a,h)anthracene	3912	2950	75	47 - 128
Dibenzofuran	3912	3360	86	44 - 118
Diethylphthalate	3912	3530	90	44 - 132
Dimethyl phthalate	3912	3530	90	46 - 121
Dinoseb	3912	3230	83	10 - 118
Ethyl methanesulfonate	3912	3030	78	41 - 117
Fluoranthene	3912	3750	96	42 - 135
Fluorene	3912	3420	87	47 - 122
Hexachlorobenzene	3912	3510	90	38 - 133
Hexachlorobutadiene	3912	3160	81	40 - 108
Hexachlorocyclopentadiene	3912	2890	74	18 - 130
Hexachloroethane	3912	2760	71	34 - 106
Hexachloropropene	3912	2910	74	31 - 115
Indeno(1,2,3-cd)pyrene	3912	3040	78	46 - 127
Isodrin	3912	3510	90	43 - 137
Isophorone	3912	3150	81	45 - 125
Isosafrole	3912	3270	84	41 - 115
Kepone	3912	ND	0	12 - 101
Methyl methanesulfonate	3912	3010	77	6.3 - 136
N-Nitrosodiphenylamine	3912	3330	85	30 - 148
N-nitroso-di-n-propylamine	3912	3090	79	41 - 122
N-nitrosodimethylamine	3912	2750	70	28 - 107
Naphthalene	3912	3200	82	38 - 118
Nitrobenzene	3912	3020	77	40 - 119
Pentachlorobenzene	3912	3420	87	44 - 116
Pentachloronitrobenzene	3912	3620	93	39 - 139
Pentachlorophenol	3912	5180	132	10 - 117
Phenacetin	3912	3560	91	39 - 146
Phenanthrene	3912	3540	91	39 - 134
Phenol	3912	3090	79	39 - 121
Pyrene	3912	3720	95	45 - 130
Pyridine	3912	2030	52	22 - 77
Safrole	3912	3330	85	45 - 119
bis(-2-Chloroethoxy)methane	3912	3170	81	40 - 119

Comments: The recovery of pentachlorophenol is above spec in the LFB.
There is no recovery of kepone in the LFB.

The poor correlation between the sample and duplicate is most probably due to the inhomogeneity of the sample matrix.

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

Page 3 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ely	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christie Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample-Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 11, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080054
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: BNAs in Soils Medium Level
Analyst: Bhavita Patel

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.11 14:25:53 -04'00'

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0032	Lab Sample ID:	AB32180
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.553 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	590	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	590	
56-57-5	4-nitroquinoline-1-oxide	ND	590	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0032	Lab Sample ID:	AB32180
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.553 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**360**	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1500**	300	
50-32-8	Benzo(a)pyrene	**1400**	300	
205-99-2	Benzo(b)fluoranthene	**1600**	300	
191-24-2	Benzo(g,h,i)perylene	**980**	300	
207-08-9	Benzo(k)fluoranthene	**1200**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	**320**	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1800**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**3300**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**930**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0032	Lab Sample ID:	AB32180
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.553 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**2100**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**3000**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	86	22 - 97
Phenol-d6 (SS2)	86	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	99	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0034	Lab Sample ID:	AB32181
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	83%
Dry Weight Extracted:	8.428 grams	Extract Dilution:	1
Wet Weight Extracted:	10.182 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	600	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	600	
56-57-5	4-nitroquinoline-1-oxide	ND	600	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0034	Lab Sample ID:	AB32181
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	83%
Dry Weight Extracted:	8.428 grams	Extract Dilution:	1
Wet Weight Extracted:	10.182 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1300**	300	
50-32-8	Benzo(a)pyrene	**1300**	300	
205-99-2	Benzo(b)fluoranthene	**1300**	300	
191-24-2	Benzo(g,h,i)perylene	**1100**	300	
207-08-9	Benzo(k)fluoranthene	**910**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1500**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**2600**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**820**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0034	Lab Sample ID:	AB32181
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	83%
Dry Weight Extracted:	8.428 grams	Extract Dilution:	1
Wet Weight Extracted:	10.182 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**1400**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**2400**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	92	22 - 97
Phenol-d6 (SS2)	91	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	111	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0035	Lab Sample ID:	AB32182
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.381 grams	Extract Dilution:	1
Wet Weight Extracted:	10.220 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	600	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	600	
56-57-5	4-nitroquinoline-1-oxide	ND	600	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0035	Lab Sample ID:	AB32182
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.381 grams	Extract Dilution:	1
Wet Weight Extracted:	10.220 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**800**	300	
50-32-8	Benzo(a)pyrene	**870**	300	
205-99-2	Benzo(b)fluoranthene	**750**	300	
191-24-2	Benzo(g,h,i)perylene	**1100**	300	
207-08-9	Benzo(k)fluoranthene	**790**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**890**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**1600**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**570**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0035	Lab Sample ID:	AB32182
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.381 grams	Extract Dilution:	1
Wet Weight Extracted:	10.220 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**910**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**1500**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	83	22 - 97
Phenol-d6 (SS2)	83	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	104	12 - 127
p-Terphenyl-d14 (SS6)	70	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
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Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0042	Lab Sample ID:	AB32183
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.405 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	590	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	590	
56-57-5	4-nitroquinoline-1-oxide	ND	590	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0042	Lab Sample ID:	AB32183
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.405 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1100**	300	
50-32-8	Benzo(a)pyrene	**1100**	300	
205-99-2	Benzo(b)fluoranthene	**1100**	300	
191-24-2	Benzo(g,h,i)perylene	**550**	300	
207-08-9	Benzo(k)fluoranthene	**910**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1300**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**2300**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**570**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0042	Lab Sample ID:	AB32183
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.485 grams	Extract Dilution:	1
Wet Weight Extracted:	10.405 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**1300**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**2200**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	96	22 - 97
Phenol-d6 (SS2)	96	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	110	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
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Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0043	Lab Sample ID:	AB32184
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.378 grams	Extract Dilution:	1
Wet Weight Extracted:	10.235 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	600	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	600	
56-57-5	4-nitroquinoline-1-oxide	ND	600	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0043	Lab Sample ID:	AB32184
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.378 grams	Extract Dilution:	1
Wet Weight Extracted:	10.235 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**1000**	300	
50-32-8	Benzo(a)pyrene	**1000**	300	
205-99-2	Benzo(b)fluoranthene	**970**	300	
191-24-2	Benzo(g,h,i)perylene	**490**	300	
207-08-9	Benzo(k)fluoranthene	**810**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	ND	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**1200**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	ND	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**2000**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**530**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0043	Lab Sample ID:	AB32184
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.378 grams	Extract Dilution:	1
Wet Weight Extracted:	10.235 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**1100**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**1900**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	87	22 - 97
Phenol-d6 (SS2)	86	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	108	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0044	Lab Sample ID:	AB32185
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	83%
Dry Weight Extracted:	8.589 grams	Extract Dilution:	1
Wet Weight Extracted:	10.401 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	290	
120-82-1	1,2,4-Trichlorobenzene	ND	290	
95-50-1	1,2-Dichlorobenzene	ND	290	
541-73-1	1,3-Dichlorobenzene	ND	290	
99-65-0	1,3-Dinitrobenzene	ND	290	
106-46-7	1,4-Dichlorobenzene	ND	290	
130-15-4	1,4-Naphthoquinone	ND	290	
90-12-0	1-Methylnaphthalene	ND	290	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	290	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	290	
95-95-4	2,4,5-Trichlorophenol	ND	290	
88-06-2	2,4,6-Trichlorophenol	ND	290	
120-83-2	2,4-Dichlorophenol	ND	290	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	290	
105-67-9	2,4-dimethylphenol	ND	290	
87-65-0	2,6-Dichlorophenol	ND	290	
606-20-2	2,6-Dinitrotoluene	ND	290	
91-58-7	2-Chloronaphthalene	ND	290	
95-57-8	2-Chlorophenol	ND	290	
91-57-6	2-Methylnaphthalene	ND	290	
95-48-7	2-Methylphenol	ND	290	
88-74-4	2-Nitroaniline	ND	290	
88-75-5	2-Nitrophenol	ND	290	
108-39-4/106-44-	3&4-Methylphenol	ND	580	
91-94-1	3,3'-Dichlorobenzidine	ND	290	
56-49-5	3-Methylcholanthrene	ND	290	
99-09-2	3-Nitroaniline	ND	290	
534-52-1	4,6-Dinitro-2-methylphenol	ND	290	
101-55-3	4-Bromophenyl-phenylether	ND	290	
59-50-7	4-Chloro-3-methylphenol	ND	290	
106-47-8	4-Chloroaniline	ND	290	
7005-72-3	4-Chlorophenyl-phenylether	ND	290	
100-01-6	4-Nitroaniline	ND	290	
100-02-7	4-Nitrophenol	ND	580	
56-57-5	4-nitroquinoline-1-oxide	ND	580	
83-32-9	Acenaphthene	ND	290	
208-96-8	Acenaphthylene	ND	290	
98-86-2	Acetophenone	ND	290	
62-53-3	Aniline	ND	290	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID: 12060001-0044
Date of Collection: 8/21/2012
Date of Extraction: 8/27/12
Date of Analysis: 8/29/12
Dry Weight Extracted: 8.589 grams
Wet Weight Extracted: 10.401 grams

Lab Sample ID: AB32185
Matrix Soil
Volume Purged: N/A
Percent Solids: 83%
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**390**	290	
140-57-8	Aramite	ND	290	
103-33-3	Azobenzene	ND	290	
92-87-5	Benzidine	ND	290	
56-55-3	Benzo(a)anthracene	**1800**	290	
50-32-8	Benzo(a)pyrene	**1800**	290	
205-99-2	Benzo(b)fluoranthene	**1800**	290	
191-24-2	Benzo(g,h,i)perylene	**700**	290	
207-08-9	Benzo(k)fluoranthene	**1400**	290	
65-85-0	Benzoic acid	ND	290	
100-51-6	Benzyl alcohol	ND	290	
111-44-4	Bis(2-Chloroethyl)ether	ND	290	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	290	
85-68-7	Butylbenzylphthalate	ND	290	
86-74-8	Carbazole	ND	290	
510-15-6	Chlorobenzilate	ND	290	
218-01-9	Chrysene	**2000**	290	
84-74-2	Di-n-butylphthalate	ND	290	
117-84-0	Di-n-octyl phthalate	ND	290	
53-70-3	Dibenz(a,h)anthracene	ND	290	
132-64-9	Dibenzofuran	ND	290	
84-66-2	Diethylphthalate	ND	290	
131-11-3	Dimethyl phthalate	ND	290	
88-85-7	Dinoseb	ND	290	
62-50-0	Ethyl methanesulfonate	ND	290	
206-44-0	Fluoranthene	**3200**	290	
86-73-7	Fluorene	ND	290	
118-74-1	Hexachlorobenzene	ND	290	
87-68-3	Hexachlorobutadiene	ND	290	
77-47-4	Hexachlorocyclopentadiene	ND	290	
67-72-1	Hexachloroethane	ND	290	
1888-71-7	Hexachloropropene	ND	290	
193-39-5	Indeno(1,2,3-cd)pyrene	**780**	290	
465-73-6	Isodrin	ND	290	
78-59-1	Isophorone	ND	290	
120-58-1	Isosafrole	ND	290	
143-50-0	Kepone	ND	290	
66-27-3	Methyl methanesulfonate	ND	290	
86-30-6	N-Nitrosodiphenylamine	ND	290	
621-64-7	N-nitroso-di-n-propylamine	ND	290	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0044	Lab Sample ID:	AB32185
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	83%
Dry Weight Extracted:	8.589 grams	Extract Dilution:	1
Wet Weight Extracted:	10.401 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	290	
91-20-3	Naphthalene	ND	290	
98-95-3	Nitrobenzene	ND	290	
608-93-5	Pentachlorobenzene	ND	290	
82-68-8	Pentachloronitrobenzene	ND	290	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	290	
85-01-8	Phenanthrene	**2100**	290	
108-95-2	Phenol	ND	290	
129-00-0	Pyrene	**3100**	290	
110-86-1	Pyridine	ND	290	
94-59-7	Safrole	ND	290	
111-91-1	bis(-2-Chloroethoxy)methane	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	175	22 - 97
Phenol-d6 (SS2)	173	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	60	23 - 104
2,4,6-Tribromophenol (SS5)	205	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	120%
Dry Weight Extracted:	12.247 grams	Extract Dilution:	1
Wet Weight Extracted:	10.237 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	240	
120-82-1	1,2,4-Trichlorobenzene	ND	240	
95-50-1	1,2-Dichlorobenzene	ND	240	
541-73-1	1,3-Dichlorobenzene	ND	240	
99-65-0	1,3-Dinitrobenzene	ND	240	
106-46-7	1,4-Dichlorobenzene	ND	240	
130-15-4	1,4-Naphthoquinone	ND	240	
90-12-0	1-Methylnaphthalene	ND	240	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	240	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	240	
95-95-4	2,4,5-Trichlorophenol	ND	240	
88-06-2	2,4,6-Trichlorophenol	ND	240	
120-83-2	2,4-Dichlorophenol	ND	240	
51-28-5	2,4-Dinitrophenol	ND	980	
121-14-2	2,4-Dinitrotoluene	ND	240	
105-67-9	2,4-dimethylphenol	ND	240	
87-65-0	2,6-Dichlorophenol	ND	240	
606-20-2	2,6-Dinitrotoluene	ND	240	
91-58-7	2-Chloronaphthalene	ND	240	
95-57-8	2-Chlorophenol	ND	240	
91-57-6	2-Methylnaphthalene	ND	240	
95-48-7	2-Methylphenol	ND	240	
88-74-4	2-Nitroaniline	ND	240	
88-75-5	2-Nitrophenol	ND	240	
108-39-4/106-44-	3&4-Methylphenol	ND	490	
91-94-1	3,3'-Dichlorobenzidine	ND	240	
56-49-5	3-Methylcholanthrene	ND	240	
99-09-2	3-Nitroaniline	ND	240	
534-52-1	4,6-Dinitro-2-methylphenol	ND	240	
101-55-3	4-Bromophenyl-phenylether	ND	240	
59-50-7	4-Chloro-3-methylphenol	ND	240	
106-47-8	4-Chloroaniline	ND	240	
7005-72-3	4-Chlorophenyl-phenylether	ND	240	
100-01-6	4-Nitroaniline	ND	240	
100-02-7	4-Nitrophenol	ND	490	
56-57-5	4-nitroquinoline-1-oxide	ND	490	
83-32-9	Acenaphthene	ND	240	
208-96-8	Acenaphthylene	ND	240	
98-86-2	Acetophenone	ND	240	
62-53-3	Aniline	ND	240	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	120%
Dry Weight Extracted:	12.247 grams	Extract Dilution:	1
Wet Weight Extracted:	10.237 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	240	
140-57-8	Aramite	ND	240	
103-33-3	Azobenzene	ND	240	
92-87-5	Benzidine	ND	240	
56-55-3	Benzo(a)anthracene	ND	240	
50-32-8	Benzo(a)pyrene	ND	240	
205-99-2	Benzo(b)fluoranthene	ND	240	
191-24-2	Benzo(g,h,i)perylene	ND	240	
207-08-9	Benzo(k)fluoranthene	ND	240	
65-85-0	Benzoic acid	ND	240	
100-51-6	Benzyl alcohol	ND	240	
111-44-4	Bis(2-Chloroethyl)ether	ND	240	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	240	
85-68-7	Butylbenzylphthalate	ND	240	
86-74-8	Carbazole	ND	240	
510-15-6	Chlorobenzilate	ND	240	
218-01-9	Chrysene	ND	240	
84-74-2	Di-n-butylphthalate	ND	240	
117-84-0	Di-n-octyl phthalate	ND	240	
53-70-3	Dibenz(a,h)anthracene	ND	240	
132-64-9	Dibenzofuran	ND	240	
84-66-2	Diethylphthalate	ND	240	
131-11-3	Dimethyl phthalate	ND	240	
88-85-7	Dinoseb	ND	240	
62-50-0	Ethyl methanesulfonate	ND	240	
206-44-0	Fluoranthene	ND	240	
86-73-7	Fluorene	ND	240	
118-74-1	Hexachlorobenzene	ND	240	
87-68-3	Hexachlorobutadiene	ND	240	
77-47-4	Hexachlorocyclopentadiene	ND	240	
67-72-1	Hexachloroethane	ND	240	
1888-71-7	Hexachloropropene	ND	240	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	240	
465-73-6	Isodrin	ND	240	
78-59-1	Isophorone	ND	240	
120-58-1	Isosafrole	ND	240	
143-50-0	Kepone	ND	240	
66-27-3	Methyl methanesulfonate	ND	240	
86-30-6	N-Nitrosodiphenylamine	ND	240	
621-64-7	N-nitroso-di-n-propylamine	ND	240	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	120%
Dry Weight Extracted:	12.247 grams	Extract Dilution:	1
Wet Weight Extracted:	10.237 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	240	
91-20-3	Naphthalene	ND	240	
98-95-3	Nitrobenzene	ND	240	
608-93-5	Pentachlorobenzene	ND	240	
82-68-8	Pentachloronitrobenzene	ND	240	
87-86-5	Pentachlorophenol	ND	980	
62-44-2	Phenacetin	ND	240	
85-01-8	Phenanthrene	ND	240	
108-95-2	Phenol	ND	240	
129-00-0	Pyrene	ND	240	
110-86-1	Pyridine	ND	240	
94-59-7	Safrole	ND	240	
111-91-1	bis(-2-Chloroethoxy)methane	ND	240	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	56	22 - 97
Phenol-d6 (SS2)	59	23 - 99
Nitrobenzene-d5 (SS3)	40	20 - 98
2-Fluorobiphenyl (SS4)	43	23 - 104
2,4,6-Tribromophenol (SS5)	53	12 - 127
p-Terphenyl-d14 (SS6)	53	23 - 120

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0051	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.538 grams	Extract Dilution:	1
Wet Weight Extracted:	10.215 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	530	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	530	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0051	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.538 grams	Extract Dilution:	1
Wet Weight Extracted:	10.215 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**570**	260	
50-32-8	Benzo(a)pyrene	**570**	260	
205-99-2	Benzo(b)fluoranthene	**500**	260	
191-24-2	Benzo(g,h,i)perylene	**330**	260	
207-08-9	Benzo(k)fluoranthene	**420**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	ND	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**660**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	ND	260	
132-64-9	Dibenzofuran	ND	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**1000**	260	
86-73-7	Fluorene	ND	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**320**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0051	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/28/12	Percent Solids:	93%
Dry Weight Extracted:	9.538 grams	Extract Dilution:	1
Wet Weight Extracted:	10.215 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**480**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**900**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	92	22 - 97
Phenol-d6 (SS2)	91	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	101	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0052	Lab Sample ID:	AB32192
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.796 grams	Extract Dilution:	1
Wet Weight Extracted:	10.243 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	290	
120-82-1	1,2,4-Trichlorobenzene	ND	290	
95-50-1	1,2-Dichlorobenzene	ND	290	
541-73-1	1,3-Dichlorobenzene	ND	290	
99-65-0	1,3-Dinitrobenzene	ND	290	
106-46-7	1,4-Dichlorobenzene	ND	290	
130-15-4	1,4-Naphthoquinone	ND	290	
90-12-0	1-Methylnaphthalene	ND	290	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	290	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	290	
95-95-4	2,4,5-Trichlorophenol	ND	290	
88-06-2	2,4,6-Trichlorophenol	ND	290	
120-83-2	2,4-Dichlorophenol	ND	290	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	290	
105-67-9	2,4-dimethylphenol	ND	290	
87-65-0	2,6-Dichlorophenol	ND	290	
606-20-2	2,6-Dinitrotoluene	ND	290	
91-58-7	2-Chloronaphthalene	ND	290	
95-57-8	2-Chlorophenol	ND	290	
91-57-6	2-Methylnaphthalene	ND	290	
95-48-7	2-Methylphenol	ND	290	
88-74-4	2-Nitroaniline	ND	290	
88-75-5	2-Nitrophenol	ND	290	
108-39-4/106-44-	3&4-Methylphenol	ND	570	
91-94-1	3,3'-Dichlorobenzidine	ND	290	
56-49-5	3-Methylcholanthrene	ND	290	
99-09-2	3-Nitroaniline	ND	290	
534-52-1	4,6-Dinitro-2-methylphenol	ND	290	
101-55-3	4-Bromophenyl-phenylether	ND	290	
59-50-7	4-Chloro-3-methylphenol	ND	290	
106-47-8	4-Chloroaniline	ND	290	
7005-72-3	4-Chlorophenyl-phenylether	ND	290	
100-01-6	4-Nitroaniline	ND	290	
100-02-7	4-Nitrophenol	ND	570	
56-57-5	4-nitroquinoline-1-oxide	ND	570	
83-32-9	Acenaphthene	**460**	290	
208-96-8	Acenaphthylene	ND	290	
98-86-2	Acetophenone	ND	290	
62-53-3	Aniline	ND	290	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0052	Lab Sample ID:	AB32192
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.796 grams	Extract Dilution:	1
Wet Weight Extracted:	10.243 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1000**	290	
140-57-8	Aramite	ND	290	
103-33-3	Azobenzene	ND	290	
92-87-5	Benzidine	ND	290	
56-55-3	Benzo(a)anthracene	**3000**	290	
50-32-8	Benzo(a)pyrene	**2900**	290	
205-99-2	Benzo(b)fluoranthene	**2800**	290	
191-24-2	Benzo(g,h,i)perylene	**1200**	290	
207-08-9	Benzo(k)fluoranthene	**2600**	290	
65-85-0	Benzoic acid	ND	290	
100-51-6	Benzyl alcohol	ND	290	
111-44-4	Bis(2-Chloroethyl)ether	ND	290	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	290	
85-68-7	Butylbenzylphthalate	ND	290	
86-74-8	Carbazole	**530**	290	
510-15-6	Chlorobenzilate	ND	290	
218-01-9	Chrysene	**3300**	290	
84-74-2	Di-n-butylphthalate	ND	290	
117-84-0	Di-n-octyl phthalate	ND	290	
53-70-3	Dibenz(a,h)anthracene	ND	290	
132-64-9	Dibenzofuran	**290**	290	
84-66-2	Diethylphthalate	ND	290	
131-11-3	Dimethyl phthalate	ND	290	
88-85-7	Dinoseb	ND	290	
62-50-0	Ethyl methanesulfonate	ND	290	
206-44-0	Fluoranthene	**5700**	290	
86-73-7	Fluorene	**420**	290	
118-74-1	Hexachlorobenzene	ND	290	
87-68-3	Hexachlorobutadiene	ND	290	
77-47-4	Hexachlorocyclopentadiene	ND	290	
67-72-1	Hexachloroethane	ND	290	
1888-71-7	Hexachloropropene	ND	290	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	290	
465-73-6	Isodrin	ND	290	
78-59-1	Isophorone	ND	290	
120-58-1	Isosafrole	ND	290	
143-50-0	Kepone	ND	290	
66-27-3	Methyl methanesulfonate	ND	290	
86-30-6	N-Nitrosodiphenylamine	ND	290	
621-64-7	N-nitroso-di-n-propylamine	ND	290	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0052	Lab Sample ID:	AB32192
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.796 grams	Extract Dilution:	1
Wet Weight Extracted:	10.243 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	290	
91-20-3	Naphthalene	ND	290	
98-95-3	Nitrobenzene	ND	290	
608-93-5	Pentachlorobenzene	ND	290	
82-68-8	Pentachloronitrobenzene	ND	290	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	290	
85-01-8	Phenanthrene	**4400**	290	
108-95-2	Phenol	ND	290	
129-00-0	Pyrene	**5500**	290	
110-86-1	Pyridine	ND	290	
94-59-7	Safrole	ND	290	
111-91-1	bis(-2-Chloroethoxy)methane	ND	290	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	90	22 - 97
Phenol-d6 (SS2)	92	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	104	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0053	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.982 grams	Extract Dilution:	1
Wet Weight Extracted:	10.469 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0053	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.982 grams	Extract Dilution:	1
Wet Weight Extracted:	10.469 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**850**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**3100**	280	
50-32-8	Benzo(a)pyrene	**2900**	280	
205-99-2	Benzo(b)fluoranthene	**2800**	280	
191-24-2	Benzo(g,h,i)perylene	**1200**	280	
207-08-9	Benzo(k)fluoranthene	**2600**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	**320**	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**3400**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**6200**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0053	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	8.982 grams	Extract Dilution:	1
Wet Weight Extracted:	10.469 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**3700**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**6200**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	111	22 - 97
Phenol-d6 (SS2)	112	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	100	12 - 127
p-Terphenyl-d14 (SS6)	100	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0060	Lab Sample ID:	AB32200
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.308 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	530	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	530	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	**540**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0060	Lab Sample ID:	AB32200
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.308 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1600**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**4100**	270	
50-32-8	Benzo(a)pyrene	**3100**	270	
205-99-2	Benzo(b)fluoranthene	**3400**	270	
191-24-2	Benzo(g,h,i)perylene	**1200**	270	
207-08-9	Benzo(k)fluoranthene	**3200**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**1600**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**4600**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	**630**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**8600**	270	
86-73-7	Fluorene	**680**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**1300**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0060	Lab Sample ID:	AB32200
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.308 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	**640**	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**7900**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**7800**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	92	22 - 97
Phenol-d6 (SS2)	91	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	110	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0061	Lab Sample ID:	AB32201
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	90%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.421 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	530	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	530	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	**360**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0061	Lab Sample ID:	AB32201
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	90%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.421 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**790**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**2900**	270	
50-32-8	Benzo(a)pyrene	**2800**	270	
205-99-2	Benzo(b)fluoranthene	**3200**	270	
191-24-2	Benzo(g,h,i)perylene	**1200**	270	
207-08-9	Benzo(k)fluoranthene	**2800**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**500**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**3400**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	**340**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**6000**	270	
86-73-7	Fluorene	**360**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**1200**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0061	Lab Sample ID:	AB32201
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	90%
Dry Weight Extracted:	9.411 grams	Extract Dilution:	1
Wet Weight Extracted:	10.421 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	ND	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**4500**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**5900**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	103	22 - 97
Phenol-d6 (SS2)	104	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	122	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0062	Lab Sample ID:	AB32202
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	89%
Dry Weight Extracted:	9.058 grams	Extract Dilution:	1
Wet Weight Extracted:	10.214 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	550	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	550	
56-57-5	4-nitroquinoline-1-oxide	ND	550	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0062	Lab Sample ID:	AB32202
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	89%
Dry Weight Extracted:	9.058 grams	Extract Dilution:	1
Wet Weight Extracted:	10.214 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**320**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**1100**	280	
50-32-8	Benzo(a)pyrene	**1200**	280	
205-99-2	Benzo(b)fluoranthene	**1300**	280	
191-24-2	Benzo(g,h,i)perylene	**460**	280	
207-08-9	Benzo(k)fluoranthene	**950**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	ND	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**1400**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**2600**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**490**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0062	Lab Sample ID:	AB32202
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	89%
Dry Weight Extracted:	9.058 grams	Extract Dilution:	1
Wet Weight Extracted:	10.214 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**1900**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**2400**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	95	22 - 97
Phenol-d6 (SS2)	93	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	115	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0069	Lab Sample ID:	AB32203
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	93%
Dry Weight Extracted:	9.546 grams	Extract Dilution:	1
Wet Weight Extracted:	10.304 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	260	
120-82-1	1,2,4-Trichlorobenzene	ND	260	
95-50-1	1,2-Dichlorobenzene	ND	260	
541-73-1	1,3-Dichlorobenzene	ND	260	
99-65-0	1,3-Dinitrobenzene	ND	260	
106-46-7	1,4-Dichlorobenzene	ND	260	
130-15-4	1,4-Naphthoquinone	ND	260	
90-12-0	1-Methylnaphthalene	ND	260	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	260	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	260	
95-95-4	2,4,5-Trichlorophenol	ND	260	
88-06-2	2,4,6-Trichlorophenol	ND	260	
120-83-2	2,4-Dichlorophenol	ND	260	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	260	
105-67-9	2,4-dimethylphenol	ND	260	
87-65-0	2,6-Dichlorophenol	ND	260	
606-20-2	2,6-Dinitrotoluene	ND	260	
91-58-7	2-Chloronaphthalene	ND	260	
95-57-8	2-Chlorophenol	ND	260	
91-57-6	2-Methylnaphthalene	ND	260	
95-48-7	2-Methylphenol	ND	260	
88-74-4	2-Nitroaniline	ND	260	
88-75-5	2-Nitrophenol	ND	260	
108-39-4/106-44-	3&4-Methylphenol	ND	530	
91-94-1	3,3'-Dichlorobenzidine	ND	260	
56-49-5	3-Methylcholanthrene	ND	260	
99-09-2	3-Nitroaniline	ND	260	
534-52-1	4,6-Dinitro-2-methylphenol	ND	260	
101-55-3	4-Bromophenyl-phenylether	ND	260	
59-50-7	4-Chloro-3-methylphenol	ND	260	
106-47-8	4-Chloroaniline	ND	260	
7005-72-3	4-Chlorophenyl-phenylether	ND	260	
100-01-6	4-Nitroaniline	ND	260	
100-02-7	4-Nitrophenol	ND	530	
56-57-5	4-nitroquinoline-1-oxide	ND	530	
83-32-9	Acenaphthene	ND	260	
208-96-8	Acenaphthylene	ND	260	
98-86-2	Acetophenone	ND	260	
62-53-3	Aniline	ND	260	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0069	Lab Sample ID:	AB32203
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	93%
Dry Weight Extracted:	9.546 grams	Extract Dilution:	1
Wet Weight Extracted:	10.304 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	260	
140-57-8	Aramite	ND	260	
103-33-3	Azobenzene	ND	260	
92-87-5	Benzidine	ND	260	
56-55-3	Benzo(a)anthracene	**780**	260	
50-32-8	Benzo(a)pyrene	**750**	260	
205-99-2	Benzo(b)fluoranthene	**850**	260	
191-24-2	Benzo(g,h,i)perylene	**300**	260	
207-08-9	Benzo(k)fluoranthene	**700**	260	
65-85-0	Benzoic acid	ND	260	
100-51-6	Benzyl alcohol	ND	260	
111-44-4	Bis(2-Chloroethyl)ether	ND	260	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	260	
85-68-7	Butylbenzylphthalate	ND	260	
86-74-8	Carbazole	ND	260	
510-15-6	Chlorobenzilate	ND	260	
218-01-9	Chrysene	**980**	260	
84-74-2	Di-n-butylphthalate	ND	260	
117-84-0	Di-n-octyl phthalate	ND	260	
53-70-3	Dibenz(a,h)anthracene	ND	260	
132-64-9	Dibenzofuran	ND	260	
84-66-2	Diethylphthalate	ND	260	
131-11-3	Dimethyl phthalate	ND	260	
88-85-7	Dinoseb	ND	260	
62-50-0	Ethyl methanesulfonate	ND	260	
206-44-0	Fluoranthene	**1900**	260	
86-73-7	Fluorene	ND	260	
118-74-1	Hexachlorobenzene	ND	260	
87-68-3	Hexachlorobutadiene	ND	260	
77-47-4	Hexachlorocyclopentadiene	ND	260	
67-72-1	Hexachloroethane	ND	260	
1888-71-7	Hexachloropropene	ND	260	
193-39-5	Indeno(1,2,3-cd)pyrene	**310**	260	
465-73-6	Isodrin	ND	260	
78-59-1	Isophorone	ND	260	
120-58-1	Isosafrole	ND	260	
143-50-0	Kepone	ND	260	
66-27-3	Methyl methanesulfonate	ND	260	
86-30-6	N-Nitrosodiphenylamine	ND	260	
621-64-7	N-nitroso-di-n-propylamine	ND	260	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0069	Lab Sample ID:	AB32203
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	93%
Dry Weight Extracted:	9.546 grams	Extract Dilution:	1
Wet Weight Extracted:	10.304 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	260	
91-20-3	Naphthalene	ND	260	
98-95-3	Nitrobenzene	ND	260	
608-93-5	Pentachlorobenzene	ND	260	
82-68-8	Pentachloronitrobenzene	ND	260	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	260	
85-01-8	Phenanthrene	**1700**	260	
108-95-2	Phenol	ND	260	
129-00-0	Pyrene	**1800**	260	
110-86-1	Pyridine	ND	260	
94-59-7	Safrole	ND	260	
111-91-1	bis(-2-Chloroethoxy)methane	ND	260	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	95	22 - 97
Phenol-d6 (SS2)	93	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	112	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0070	Lab Sample ID:	AB32204
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.374 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	540	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	540	
56-57-5	4-nitroquinoline-1-oxide	ND	540	
83-32-9	Acenaphthene	**480**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0070	Lab Sample ID:	AB32204
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.374 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**960**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**2500**	270	
50-32-8	Benzo(a)pyrene	**2300**	270	
205-99-2	Benzo(b)fluoranthene	**2500**	270	
191-24-2	Benzo(g,h,i)perylene	**830**	270	
207-08-9	Benzo(k)fluoranthene	**2400**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**570**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**2800**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	**420**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**5600**	270	
86-73-7	Fluorene	**460**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**860**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	**700**	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0070	Lab Sample ID:	AB32204
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.374 grams	Extract Dilution:	1
Wet Weight Extracted:	10.256 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	**400**	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**5100**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**5500**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	143	22 - 97
Phenol-d6 (SS2)	145	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	125	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0071	Lab Sample ID:	AB32205
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.303 grams	Extract Dilution:	1
Wet Weight Extracted:	10.202 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	**350**	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	**360**	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	540	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	540	
56-57-5	4-nitroquinoline-1-oxide	ND	540	
83-32-9	Acenaphthene	**1100**	270	
208-96-8	Acenaphthylene	**390**	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0071	Lab Sample ID:	AB32205
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.303 grams	Extract Dilution:	1
Wet Weight Extracted:	10.202 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**2600**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**7600**	270	
50-32-8	Benzo(a)pyrene	**7000**	270	
205-99-2	Benzo(b)fluoranthene	**7600**	270	
191-24-2	Benzo(g,h,i)perylene	**2900**	270	
207-08-9	Benzo(k)fluoranthene	**6700**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**1800**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**8600**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	**310**	270	
132-64-9	Dibenzofuran	**1100**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**22000**	1350	
86-73-7	Fluorene	**1100**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**3000**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0071	Lab Sample ID:	AB32205
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.303 grams	Extract Dilution:	1
Wet Weight Extracted:	10.202 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	**770**	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**10000**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**18000**	1350	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	102	22 - 97
Phenol-d6 (SS2)	101	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	123	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

Fluoranthene and pyrene are over the calibration range in sample AB32205 (SS-25C). Both compounds are reported from a 5x dilution of samples. RL's have been raised to reflect the dilution.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0072	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.062 grams	Extract Dilution:	1
Wet Weight Extracted:	10.279 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	550	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	550	
56-57-5	4-nitroquinoline-1-oxide	ND	550	
83-32-9	Acenaphthene	**290**	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0072	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.062 grams	Extract Dilution:	1
Wet Weight Extracted:	10.279 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**550**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**2200**	280	
50-32-8	Benzo(a)pyrene	**2300**	280	
205-99-2	Benzo(b)fluoranthene	**2400**	280	
191-24-2	Benzo(g,h,i)perylene	**1000**	280	
207-08-9	Benzo(k)fluoranthene	**2200**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	**330**	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**2700**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**4800**	280	
86-73-7	Fluorene	**290**	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**990**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0072	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.062 grams	Extract Dilution:	1
Wet Weight Extracted:	10.279 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**4100**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**5400**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	97	22 - 97
Phenol-d6 (SS2)	97	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	116	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0073	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.341 grams	Extract Dilution:	1
Wet Weight Extracted:	10.227 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	270	
120-82-1	1,2,4-Trichlorobenzene	ND	270	
95-50-1	1,2-Dichlorobenzene	ND	270	
541-73-1	1,3-Dichlorobenzene	ND	270	
99-65-0	1,3-Dinitrobenzene	ND	270	
106-46-7	1,4-Dichlorobenzene	ND	270	
130-15-4	1,4-Naphthoquinone	ND	270	
90-12-0	1-Methylnaphthalene	ND	270	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	270	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	270	
95-95-4	2,4,5-Trichlorophenol	ND	270	
88-06-2	2,4,6-Trichlorophenol	ND	270	
120-83-2	2,4-Dichlorophenol	ND	270	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	270	
105-67-9	2,4-dimethylphenol	ND	270	
87-65-0	2,6-Dichlorophenol	ND	270	
606-20-2	2,6-Dinitrotoluene	ND	270	
91-58-7	2-Chloronaphthalene	ND	270	
95-57-8	2-Chlorophenol	ND	270	
91-57-6	2-Methylnaphthalene	ND	270	
95-48-7	2-Methylphenol	ND	270	
88-74-4	2-Nitroaniline	ND	270	
88-75-5	2-Nitrophenol	ND	270	
108-39-4/106-44-	3&4-Methylphenol	ND	540	
91-94-1	3,3'-Dichlorobenzidine	ND	270	
56-49-5	3-Methylcholanthrene	ND	270	
99-09-2	3-Nitroaniline	ND	270	
534-52-1	4,6-Dinitro-2-methylphenol	ND	270	
101-55-3	4-Bromophenyl-phenylether	ND	270	
59-50-7	4-Chloro-3-methylphenol	ND	270	
106-47-8	4-Chloroaniline	ND	270	
7005-72-3	4-Chlorophenyl-phenylether	ND	270	
100-01-6	4-Nitroaniline	ND	270	
100-02-7	4-Nitrophenol	ND	540	
56-57-5	4-nitroquinoline-1-oxide	ND	540	
83-32-9	Acenaphthene	**580**	270	
208-96-8	Acenaphthylene	ND	270	
98-86-2	Acetophenone	ND	270	
62-53-3	Aniline	ND	270	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0073	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.341 grams	Extract Dilution:	1
Wet Weight Extracted:	10.227 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**930**	270	
140-57-8	Aramite	ND	270	
103-33-3	Azobenzene	ND	270	
92-87-5	Benzidine	ND	270	
56-55-3	Benzo(a)anthracene	**3400**	270	
50-32-8	Benzo(a)pyrene	**3400**	270	
205-99-2	Benzo(b)fluoranthene	**3500**	270	
191-24-2	Benzo(g,h,i)perylene	**1400**	270	
207-08-9	Benzo(k)fluoranthene	**3600**	270	
65-85-0	Benzoic acid	ND	270	
100-51-6	Benzyl alcohol	ND	270	
111-44-4	Bis(2-Chloroethyl)ether	ND	270	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	270	
85-68-7	Butylbenzylphthalate	ND	270	
86-74-8	Carbazole	**600**	270	
510-15-6	Chlorobenzilate	ND	270	
218-01-9	Chrysene	**4200**	270	
84-74-2	Di-n-butylphthalate	ND	270	
117-84-0	Di-n-octyl phthalate	ND	270	
53-70-3	Dibenz(a,h)anthracene	ND	270	
132-64-9	Dibenzofuran	**360**	270	
84-66-2	Diethylphthalate	ND	270	
131-11-3	Dimethyl phthalate	ND	270	
88-85-7	Dinoseb	ND	270	
62-50-0	Ethyl methanesulfonate	ND	270	
206-44-0	Fluoranthene	**6700**	270	
86-73-7	Fluorene	**530**	270	
118-74-1	Hexachlorobenzene	ND	270	
87-68-3	Hexachlorobutadiene	ND	270	
77-47-4	Hexachlorocyclopentadiene	ND	270	
67-72-1	Hexachloroethane	ND	270	
1888-71-7	Hexachloropropene	ND	270	
193-39-5	Indeno(1,2,3-cd)pyrene	**1400**	270	
465-73-6	Isodrin	ND	270	
78-59-1	Isophorone	ND	270	
120-58-1	Isosafrole	ND	270	
143-50-0	Kepone	ND	270	
66-27-3	Methyl methanesulfonate	ND	270	
86-30-6	N-Nitrosodiphenylamine	ND	270	
621-64-7	N-nitroso-di-n-propylamine	ND	270	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0073	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	91%
Dry Weight Extracted:	9.341 grams	Extract Dilution:	1
Wet Weight Extracted:	10.227 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	270	
91-20-3	Naphthalene	**460**	270	
98-95-3	Nitrobenzene	ND	270	
608-93-5	Pentachlorobenzene	ND	270	
82-68-8	Pentachloronitrobenzene	ND	270	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	270	
85-01-8	Phenanthrene	**6300**	270	
108-95-2	Phenol	ND	270	
129-00-0	Pyrene	**7600**	270	
110-86-1	Pyridine	ND	270	
94-59-7	Safrole	ND	270	
111-91-1	bis(-2-Chloroethoxy)methane	ND	270	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	85	22 - 97
Phenol-d6 (SS2)	84	23 - 99
Nitrobenzene-d5 (SS3)	55	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	106	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0074	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	9.027 grams	Extract Dilution:	1
Wet Weight Extracted:	10.467 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	**390**	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	**430**	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	**1200**	280	
208-96-8	Acenaphthylene	**430**	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0074	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	9.027 grams	Extract Dilution:	1
Wet Weight Extracted:	10.467 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**2200**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**8600**	280	
50-32-8	Benzo(a)pyrene	**8500**	280	
205-99-2	Benzo(b)fluoranthene	**9400**	280	
191-24-2	Benzo(g,h,i)perylene	**3500**	280	
207-08-9	Benzo(k)fluoranthene	**7100**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	**1600**	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**9700**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	**370**	280	
132-64-9	Dibenzofuran	**1100**	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**23000**	1400	
86-73-7	Fluorene	**1200**	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**3600**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0074	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	86%
Dry Weight Extracted:	9.027 grams	Extract Dilution:	1
Wet Weight Extracted:	10.467 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	**920**	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**9700**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**19000**	1400	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	97	22 - 97
Phenol-d6 (SS2)	95	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	121	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

Fluoranthene and pyrene are over the calibration range in sample AB32208 (SS-26C). Both compounds are reported from a 5x dilution of samples. RL's have been raised to reflect the dilution.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0078	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	87%
Dry Weight Extracted:	8.943 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	**580**	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0078	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	87%
Dry Weight Extracted:	8.943 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1100**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**2800**	280	
50-32-8	Benzo(a)pyrene	**2700**	280	
205-99-2	Benzo(b)fluoranthene	**2800**	280	
191-24-2	Benzo(g,h,i)perylene	**1100**	280	
207-08-9	Benzo(k)fluoranthene	**2600**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	**430**	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	**440**	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**3200**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	**320**	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**5600**	280	
86-73-7	Fluorene	**490**	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**1100**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0078	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	87%
Dry Weight Extracted:	8.943 grams	Extract Dilution:	1
Wet Weight Extracted:	10.226 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	**350**	280	
91-20-3	Naphthalene	**300**	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**5100**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**6200**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	100	22 - 97
Phenol-d6 (SS2)	98	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	125	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0079	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.030 grams	Extract Dilution:	1
Wet Weight Extracted:	10.239 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	280	
120-82-1	1,2,4-Trichlorobenzene	ND	280	
95-50-1	1,2-Dichlorobenzene	ND	280	
541-73-1	1,3-Dichlorobenzene	ND	280	
99-65-0	1,3-Dinitrobenzene	ND	280	
106-46-7	1,4-Dichlorobenzene	ND	280	
130-15-4	1,4-Naphthoquinone	ND	280	
90-12-0	1-Methylnaphthalene	ND	280	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	280	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	280	
95-95-4	2,4,5-Trichlorophenol	ND	280	
88-06-2	2,4,6-Trichlorophenol	ND	280	
120-83-2	2,4-Dichlorophenol	ND	280	
51-28-5	2,4-Dinitrophenol	ND	1100	
121-14-2	2,4-Dinitrotoluene	ND	280	
105-67-9	2,4-dimethylphenol	ND	280	
87-65-0	2,6-Dichlorophenol	ND	280	
606-20-2	2,6-Dinitrotoluene	ND	280	
91-58-7	2-Chloronaphthalene	ND	280	
95-57-8	2-Chlorophenol	ND	280	
91-57-6	2-Methylnaphthalene	ND	280	
95-48-7	2-Methylphenol	ND	280	
88-74-4	2-Nitroaniline	ND	280	
88-75-5	2-Nitrophenol	ND	280	
108-39-4/106-44-	3&4-Methylphenol	ND	560	
91-94-1	3,3'-Dichlorobenzidine	ND	280	
56-49-5	3-Methylcholanthrene	ND	280	
99-09-2	3-Nitroaniline	ND	280	
534-52-1	4,6-Dinitro-2-methylphenol	ND	280	
101-55-3	4-Bromophenyl-phenylether	ND	280	
59-50-7	4-Chloro-3-methylphenol	ND	280	
106-47-8	4-Chloroaniline	ND	280	
7005-72-3	4-Chlorophenyl-phenylether	ND	280	
100-01-6	4-Nitroaniline	ND	280	
100-02-7	4-Nitrophenol	ND	560	
56-57-5	4-nitroquinoline-1-oxide	ND	560	
83-32-9	Acenaphthene	ND	280	
208-96-8	Acenaphthylene	ND	280	
98-86-2	Acetophenone	ND	280	
62-53-3	Aniline	ND	280	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0079	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.030 grams	Extract Dilution:	1
Wet Weight Extracted:	10.239 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**590**	280	
140-57-8	Aramite	ND	280	
103-33-3	Azobenzene	ND	280	
92-87-5	Benzidine	ND	280	
56-55-3	Benzo(a)anthracene	**1500**	280	
50-32-8	Benzo(a)pyrene	**1300**	280	
205-99-2	Benzo(b)fluoranthene	**1200**	280	
191-24-2	Benzo(g,h,i)perylene	**840**	280	
207-08-9	Benzo(k)fluoranthene	**1100**	280	
65-85-0	Benzoic acid	ND	280	
100-51-6	Benzyl alcohol	ND	280	
111-44-4	Bis(2-Chloroethyl)ether	ND	280	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	280	
85-68-7	Butylbenzylphthalate	ND	280	
86-74-8	Carbazole	ND	280	
510-15-6	Chlorobenzilate	ND	280	
218-01-9	Chrysene	**1700**	280	
84-74-2	Di-n-butylphthalate	ND	280	
117-84-0	Di-n-octyl phthalate	ND	280	
53-70-3	Dibenz(a,h)anthracene	ND	280	
132-64-9	Dibenzofuran	ND	280	
84-66-2	Diethylphthalate	ND	280	
131-11-3	Dimethyl phthalate	ND	280	
88-85-7	Dinoseb	ND	280	
62-50-0	Ethyl methanesulfonate	ND	280	
206-44-0	Fluoranthene	**3300**	280	
86-73-7	Fluorene	ND	280	
118-74-1	Hexachlorobenzene	ND	280	
87-68-3	Hexachlorobutadiene	ND	280	
77-47-4	Hexachlorocyclopentadiene	ND	280	
67-72-1	Hexachloroethane	ND	280	
1888-71-7	Hexachloropropene	ND	280	
193-39-5	Indeno(1,2,3-cd)pyrene	**810**	280	
465-73-6	Isodrin	ND	280	
78-59-1	Isophorone	ND	280	
120-58-1	Isosafrole	ND	280	
143-50-0	Kepone	ND	280	
66-27-3	Methyl methanesulfonate	ND	280	
86-30-6	N-Nitrosodiphenylamine	ND	280	
621-64-7	N-nitroso-di-n-propylamine	ND	280	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0079	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/27/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	88%
Dry Weight Extracted:	9.030 grams	Extract Dilution:	1
Wet Weight Extracted:	10.239 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	280	
91-20-3	Naphthalene	ND	280	
98-95-3	Nitrobenzene	ND	280	
608-93-5	Pentachlorobenzene	ND	280	
82-68-8	Pentachloronitrobenzene	ND	280	
87-86-5	Pentachlorophenol	ND	1100	
62-44-2	Phenacetin	ND	280	
85-01-8	Phenanthrene	**2700**	280	
108-95-2	Phenol	ND	280	
129-00-0	Pyrene	**2800**	280	
110-86-1	Pyridine	ND	280	
94-59-7	Safrole	ND	280	
111-91-1	bis(-2-Chloroethoxy)methane	ND	280	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	89	22 - 97
Phenol-d6 (SS2)	89	23 - 99
Nitrobenzene-d5 (SS3)	60	20 - 98
2-Fluorobiphenyl (SS4)	65	23 - 104
2,4,6-Tribromophenol (SS5)	106	12 - 127
p-Terphenyl-d14 (SS6)	75	23 - 120

Comments: The following compounds were calibrated using linear regression; benzyl alcohol, benzoic acid, 2,4-dinitrophenol, 4-nitrophenol, 4,6-dinitro-2-methylphenol, pentachlorophenol, and 4-nitroquinoline-1-oxide. The reporting level for 4-nitrophenol and 4-nitorquinoline-1-oxide has been raised to 5.0. The reporting level for 2,4-dinitrophenol and pentachlorophenol have been raised to 10. Surrogate added to these samples was prepped with double the acid surrogates (80ug/mL). Recoveries for acid surrogates have been updated to reflect the addition.

MATRIX SPIKE (MS)

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32191

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	4,178	ND	2500	60	47 - 97
1,2,4-Trichlorobenzene	4,178	ND	2400	57	46 - 95
1,2-Dichlorobenzene	4,178	ND	2300	55	42 - 90
1,3-Dichlorobenzene	4,178	ND	2200	53	41 - 86
1,3-Dinitrobenzene	4,178	ND	2700	65	36 - 117
1,4-Dichlorobenzene	4,178	ND	2200	53	41 - 86
1,4-Naphthoquinone	4,178	ND	2400	57	10 - 123
1-Methylnaphthalene	4,178	ND	2600	62	49 - 99
2,2'-oxybis(1-chloropropane)	4,178	ND	2300	55	35 - 117
2,3,4,6-Tetrachlorophenol	4,178	ND	2900	69	7.7 - 168
2,4,5-Trichlorophenol	4,178	ND	3000	72	54 - 103
2,4,6-Trichlorophenol	4,178	ND	2600	62	33 - 119
2,4-Dichlorophenol	4,178	ND	2600	62	42 - 107
2,4-Dinitrophenol	4,178	ND	950	23	10 - 114
2,4-Dinitrotoluene	4,178	ND	2900	69	29 - 129
2,4-dimethylphenol	4,178	ND	2500	60	35 - 105
2,6-Dichlorophenol	4,178	ND	2500	60	28 - 114
2,6-Dinitrotoluene	4,178	ND	2700	65	57 - 105
2-Chloronaphthalene	4,178	ND	2500	60	45 - 108
2-Chlorophenol	4,178	ND	2400	57	41 - 102
2-Methylnaphthalene	4,178	ND	2500	60	43 - 101
2-Methylphenol	4,178	ND	2600	62	45 - 102
2-Nitroaniline	4,178	ND	2700	65	40 - 142
2-Nitrophenol	4,178	ND	2400	57	48 - 99
3&4-Methylphenol	8,356	ND	5200	62	10 - 154
3,3'-Dichlorobenzidine	4,178	ND	2300	55	10 - 137
3-Methylcholanthrene	4,178	ND	2500	60	25 - 123
3-Nitroaniline	4,178	ND	2500	60	30 - 114
4,6-Dinitro-2-methylphenol	4,178	ND	1200	29	10 - 115
4-Bromophenyl-phenylether	4,178	ND	2600	62	48 - 116
4-Chloro-3-methylphenol	4,178	ND	2800	67	43 - 112
4-Chloroaniline	4,178	ND	2000	48	17 - 94
4-Chlorophenyl-phenylether	4,178	ND	2700	65	52 - 103
4-Nitroaniline	4,178	ND	2700	65	17 - 117
4-Nitrophenol	4,178	ND	2700	65	17 - 141
4-nitroquinoline-1-oxide	4,178	ND	2000	48	4.4 - 101
Acenaphthene	4,178	ND	2700	65	53 - 101
Acenaphthylene	4,178	ND	2600	62	56 - 99
Acetophenone	4,178	ND	2500	60	46 - 101
Aniline	4,178	ND	1600	38	10 - 90
Anthracene	4,178	ND	2700	65	58 - 108
Aramite	4,178	ND	2500	60	39 - 118
Azobenzene	4,178	ND	2400	57	53 - 117
Benzidine	4,178	ND	ND	ND	10 - 41
Benzo(a)anthracene	4,178	570	3200	63	50 - 112
Benzo(a)pyrene	4,178	570	3100	61	34 - 122
Benzo(b)fluoranthene	4,178	500	3100	62	42 - 120
Benzo(g,h,i)perylene	4,178	330	2800	59	50 - 108

Benzo(k)fluoranthene	4,178	420	3000	62	33 - 116
Benzoic acid	4,178	ND	560	13	10 - 168
Benzyl alcohol	4,178	ND	1700	41	18 - 131
Bis(2-Chloroethyl)ether	4,178	ND	2400	57	45 - 98
Bis(2-ethylhexyl)phthalate	4,178	ND	2900	69	22 - 151
Butylbenzylphthalate	4,178	ND	2700	65	56 - 120
Carbazole	4,178	ND	2700	65	52 - 114
Chlorobenzilate	4,178	ND	2700	65	50 - 129
Chrysene	4,178	660	3200	61	43 - 111
Di-n-butylphthalate	4,178	ND	2700	65	57 - 125
Di-n-octyl phthalate	4,178	ND	2700	65	39 - 128
Dibenz(a,h)anthracene	4,178	ND	2600	62	31 - 129
Dibenzofuran	4,178	ND	2700	65	53 - 100
Diethylphthalate	4,178	ND	2800	67	54 - 106
Dimethyl phthalate	4,178	ND	2800	67	54 - 104
Dinoseb	4,178	ND	2300	55	6.4 - 114
Ethyl methanesulfonate	4,178	ND	2400	57	46 - 100
Fluoranthene	4,178	1000	3700	65	43 - 126
Fluorene	4,178	ND	2800	67	57 - 103
Hexachlorobenzene	4,178	ND	2600	62	46 - 113
Hexachlorobutadiene	4,178	ND	2400	57	44 - 93
Hexachlorocyclopentadiene	4,178	ND	1900	46	10 - 115
Hexachloroethane	4,178	ND	2100	50	36 - 88
Hexachloropropene	4,178	ND	2200	53	10 - 112
Indeno(1,2,3-cd)pyrene	4,178	320	2900	62	29 - 131
Isodrin	4,178	ND	2600	62	6.7 - 141
Isophorone	4,178	ND	2400	57	52 - 108
Isosafrole	4,178	ND	2500	60	49 - 97
Kepone	4,178	ND	1000	24	10 - 126
Methyl methanesulfonate	4,178	ND	2300	55	15 - 112
N-Nitrosodiphenylamine	4,178	ND	2500	60	50 - 107
N-nitroso-di-n-propylamine	4,178	ND	2400	57	45 - 108
N-nitrosodimethylamine	4,178	ND	2300	55	34 - 90
Naphthalene	4,178	ND	2500	60	43 - 100
Nitrobenzene	4,178	ND	2300	55	46 - 103
Pentachlorobenzene	4,178	ND	2700	65	50 - 101
Pentachloronitrobenzene	4,178	ND	2600	62	51 - 119
Pentachlorophenol	4,178	ND	3500	84	6.2 - 128
Phenacetin	4,178	ND	2700	65	54 - 124
Phenanthrene	4,178	480	3400	70	47 - 119
Phenol	4,178	ND	2400	57	48 - 97
Pyrene	4,178	900	3600	65	49 - 117
Pyridine	4,178	ND	1700	41	14 - 67
Safrole	4,178	ND	2400	57	49 - 103
bis(-2-Chloroethoxy)methane	4,178	ND	2500	60	47 - 102

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32191

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	570	357.9	45.7	50
Benzo(a)pyrene	570	347.4	48.5	50
Benzo(b)fluoranthene	500	337.4	38.8	50
Benzo(g,h,i)perylene	330	ND	ND	50
Benzo(k)fluoranthene	420	285.9	38.0	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	660	425.9	43.1	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	1000	791.5	23.3	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	320	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	480	461.2	4.0	50
Phenol	ND	ND	ND	50
Pyrene	900	635.4	34.5	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	3928	2750	70	41 - 113
1,2,4-Trichlorobenzene	3928	2660	68	39 - 111
1,2-Dichlorobenzene	3928	2500	64	36 - 106
1,3-Dichlorobenzene	3928	2430	62	35 - 103
1,3-Dinitrobenzene	3928	2920	74	26 - 138
1,4-Dichlorobenzene	3928	2450	62	35 - 103
1,4-Naphthoquinone	3928	2960	75	37 - 134
1-Methylnaphthalene	3928	2790	71	41 - 117
2,2'-oxybis(1-chloropropane)	3928	2600	66	30 - 134
2,3,4,6-Tetrachlorophenol	3928	3320	85	16 - 153
2,4,5-Trichlorophenol	3928	3300	84	38 - 122
2,4,6-Trichlorophenol	3928	2910	74	39 - 121
2,4-Dichlorophenol	3928	2870	73	40 - 118
2,4-Dinitrophenol	3928	1880	48	10 - 71
2,4-Dinitrotoluene	3928	3070	78	47 - 127
2,4-dimethylphenol	3928	1960	50	30 - 120
2,6-Dichlorophenol	3928	2750	70	40 - 116
2.6-Dinitrotoluene	3928	2980	76	46 - 128
2-Chloronaphthalene	3928	2790	71	42 - 125
2-Chlorophenol	3928	2650	68	41 - 115
2-Methylnaphthalene	3928	2720	69	35 - 120
2-Methylphenol	3928	2720	69	40 - 119
2-Nitroaniline	3928	2900	74	29 - 163
2-Nitrophenol	3928	2660	68	35 - 115
3&4-Methylphenol	7855	5680	72	3.5 - 149
3,3'-Dichlorobenzidine	3928	2600	66	29 - 114
3-Methylcholanthrene	3928	2850	73	40 - 126
3-Nitroaniline	3928	2530	64	44 - 120
4,6-Dinitro-2-methylphenol	3928	2560	65	10 - 97
4-Bromophenyl-phenylether	3928	2920	74	40 - 133
4-Chloro-3-methylphenol	3928	3080	78	36 - 133
4-Chloroaniline	3928	2250	57	28 - 99
4-Chlorophenyl-phenylether	3928	2900	74	45 - 119
4-Nitroaniline	3928	2740	70	37 - 131
4-Nitrophenol	3928	2860	73	15 - 141
4-nitroquinoline-1-oxide	3928	2680	68	19 - 118
Acenaphthene	3928	2830	72	44 - 119
Acenaphthylene	3928	2860	73	44 - 121
Acetophenone	3928	2740	70	41 - 115
Aniline	3928	1840	47	20 - 99
Anthracene	3928	2930	75	40 - 137
Aramite	3928	2990	76	37 - 118
Azobenzene	3928	2740	70	41 - 141
Benzidine	3928	318	8	2 - 76
Benzo(a)anthracene	3928	2970	76	46 - 128
Benzo(a)pyrene	3928	3020	77	49 - 124
Benzo(b)fluoranthene	3928	3010	77	41 - 135
Benzo(g,h,i)perylene	3928	2910	74	47 - 123
Benzo(k)fluoranthene	3928	3140	80	50 - 114
Benzoic acid	3928	521	13	10 - 122
Benzyl alcohol	3928	2730	70	28 - 129
Bis(2-Chloroethyl)ether	3928	2600	66	40 - 112

Bis(2-ethylhexyl)phthalate	3928	2940	75	38 - 143
Butylbenzylphthalate	3928	2960	75	40 - 143
Carbazole	3928	3010	77	42 - 133
Chlorobenzilate	3928	3100	79	45 - 139
Chrysene	3928	2970	76	47 - 118
Di-n-butylphthalate	3928	3020	77	33 - 183
Di-n-octyl phthalate	3928	3060	78	44 - 125
Dibenz(a,h)anthracene	3928	2900	74	47 - 128
Dibenzofuran	3928	2850	73	44 - 118
Diethylphthalate	3928	2960	75	44 - 132
Dimethyl phthalate	3928	2980	76	46 - 121
Dinoseb	3928	2960	75	10 - 118
Ethyl methanesulfonate	3928	2650	68	41 - 117
Fluoranthene	3928	3010	77	42 - 135
Fluorene	3928	2870	73	47 - 122
Hexachlorobenzene	3928	2970	76	38 - 133
Hexachlorobutadiene	3928	2630	67	40 - 108
Hexachlorocyclopentadiene	3928	2550	65	18 - 130
Hexachloroethane	3928	2350	60	34 - 106
Hexachloropropene	3928	2540	65	31 - 115
Indeno(1,2,3-cd)pyrene	3928	3010	77	46 - 127
Isodrin	3928	2920	74	43 - 137
Isophorone	3928	2730	70	45 - 125
Isosafrole	3928	2770	71	41 - 115
Kepone	3928	903	23	12 - 101
Methyl methanesulfonate	3928	2630	67	6.3 - 136
N-Nitrosodiphenylamine	3928	2810	72	30 - 148
N-nitroso-di-n-propylamine	3928	2660	68	41 - 122
N-nitrosodimethylamine	3928	2420	62	28 - 107
Naphthalene	3928	2720	69	38 - 118
Nitrobenzene	3928	2610	66	40 - 119
Pentachlorobenzene	3928	2910	74	44 - 116
Pentachloronitrobenzene	3928	2980	76	39 - 139
Pentachlorophenol	3928	4990	127	10 - 117
Phenacetin	3928	3050	78	39 - 146
Phenanthrene	3928	2940	75	39 - 134
Phenol	3928	2680	68	39 - 121
Pyrene	3928	3080	78	45 - 130
Pyridine	3928	1770	45	22 - 77
Safrole	3928	2770	71	45 - 119
bis(-2-Chloroethoxy)methane	3928	2710	69	40 - 119

Comments:

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

Page 3 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	**SAMPLES TRANSFERRED FROM** **CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

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SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 11, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080055
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: BNAs in Soils Medium Level
Analyst: Bhavita Patel

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAS3.

Samples were prepared using pressurized fluid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this analysis is based on US EPA SW-846 methods 3545A and 8270C and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.11 11:40:13 -04'00'

12080055$BNAMS

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.918 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	320	
120-82-1	1,2,4-Trichlorobenzene	ND	320	
95-50-1	1,2-Dichlorobenzene	ND	320	
541-73-1	1,3-Dichlorobenzene	ND	320	
99-65-0	1,3-Dinitrobenzene	ND	320	
106-46-7	1,4-Dichlorobenzene	ND	320	
130-15-4	1,4-Naphthoquinone	ND	320	
90-12-0	1-Methylnaphthalene	ND	320	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	320	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	320	
95-95-4	2,4,5-Trichlorophenol	ND	320	
88-06-2	2,4,6-Trichlorophenol	ND	320	
120-83-2	2,4-Dichlorophenol	ND	320	
51-28-5	2,4-Dinitrophenol	ND	1300	
121-14-2	2,4-Dinitrotoluene	ND	320	
105-67-9	2,4-dimethylphenol	ND	320	
87-65-0	2,6-Dichlorophenol	ND	320	
606-20-2	2,6-Dinitrotoluene	ND	320	
91-58-7	2-Chloronaphthalene	ND	320	
95-57-8	2-Chlorophenol	ND	320	
91-57-6	2-Methylnaphthalene	ND	320	
95-48-7	2-Methylphenol	ND	320	
88-74-4	2-Nitroaniline	ND	320	
88-75-5	2-Nitrophenol	ND	320	
108-39-4/106-44-	3&4-Methylphenol	ND	630	
91-94-1	3,3'-Dichlorobenzidine	ND	320	
56-49-5	3-Methylcholanthrene	ND	320	
99-09-2	3-Nitroaniline	ND	320	
534-52-1	4,6-Dinitro-2-methylphenol	ND	320	
101-55-3	4-Bromophenyl-phenylether	ND	320	
59-50-7	4-Chloro-3-methylphenol	ND	320	
106-47-8	4-Chloroaniline	ND	320	
7005-72-3	4-Chlorophenyl-phenylether	ND	320	
100-01-6	4-Nitroaniline	ND	320	
100-02-7	4-Nitrophenol	ND	630	
56-57-5	4-nitroquinoline-1-oxide	ND	630	
83-32-9	Acenaphthene	**810**	320	
208-96-8	Acenaphthylene	**380**	320	
98-86-2	Acetophenone	ND	320	
62-53-3	Aniline	ND	320	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.918 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**2200**	320	
140-57-8	Aramite	ND	320	
103-33-3	Azobenzene	ND	320	
92-87-5	Benzidine	ND	320	
56-55-3	Benzo(a)anthracene	**6400**	320	
50-32-8	Benzo(a)pyrene	**5800**	320	
205-99-2	Benzo(b)fluoranthene	**5500**	320	
191-24-2	Benzo(g,h,i)perylene	**2700**	320	
207-08-9	Benzo(k)fluoranthene	**5300**	320	
65-85-0	Benzoic acid	ND	320	
100-51-6	Benzyl alcohol	ND	320	
111-44-4	Bis(2-Chloroethyl)ether	ND	320	
117-81-7	Bis(2-ethylhexyl)phthalate	**470**	320	
85-68-7	Butylbenzylphthalate	ND	320	
86-74-8	Carbazole	**1400**	320	
510-15-6	Chlorobenzilate	ND	320	
218-01-9	Chrysene	**7300**	320	
84-74-2	Di-n-butylphthalate	ND	320	
117-84-0	Di-n-octyl phthalate	ND	320	
53-70-3	Dibenz(a,h)anthracene	**920**	320	
132-64-9	Dibenzofuran	**780**	320	
84-66-2	Diethylphthalate	ND	320	
131-11-3	Dimethyl phthalate	ND	320	
88-85-7	Dinoseb	ND	320	
62-50-0	Ethyl methanesulfonate	ND	320	
206-44-0	Fluoranthene	**12000**	320	
86-73-7	Fluorene	**870**	320	
118-74-1	Hexachlorobenzene	ND	320	
87-68-3	Hexachlorobutadiene	ND	320	
77-47-4	Hexachlorocyclopentadiene	ND	320	
67-72-1	Hexachloroethane	ND	320	
1888-71-7	Hexachloropropene	ND	320	
193-39-5	Indeno(1,2,3-cd)pyrene	**2900**	320	
465-73-6	Isodrin	ND	320	
78-59-1	Isophorone	ND	320	
120-58-1	Isosafrole	ND	320	
143-50-0	Kepone	ND	320	
66-27-3	Methyl methanesulfonate	ND	320	
86-30-6	N-Nitrosodiphenylamine	ND	320	
621-64-7	N-nitroso-di-n-propylamine	ND	320	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.918 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	320	
91-20-3	Naphthalene	**570**	320	
98-95-3	Nitrobenzene	ND	320	
608-93-5	Pentachlorobenzene	ND	320	
82-68-8	Pentachloronitrobenzene	ND	320	
87-86-5	Pentachlorophenol	ND	1300	
62-44-2	Phenacetin	ND	320	
85-01-8	Phenanthrene	**9900**	320	
108-95-2	Phenol	ND	320	
129-00-0	Pyrene	**11000**	320	
110-86-1	Pyridine	ND	320	
94-59-7	Safrole	ND	320	
111-91-1	bis(-2-Chloroethoxy)methane	ND	320	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	90	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	4,000	ppb	J

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	73%
Dry Weight Extracted:	7.33 grams	Extract Dilution:	1
Wet Weight Extracted:	10.079 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	340	
120-82-1	1,2,4-Trichlorobenzene	ND	340	
95-50-1	1,2-Dichlorobenzene	ND	340	
541-73-1	1,3-Dichlorobenzene	ND	340	
99-65-0	1,3-Dinitrobenzene	ND	340	
106-46-7	1,4-Dichlorobenzene	ND	340	
130-15-4	1,4-Naphthoquinone	ND	340	
90-12-0	1-Methylnaphthalene	**1100**	340	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	340	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	340	
95-95-4	2,4,5-Trichlorophenol	ND	340	
88-06-2	2,4,6-Trichlorophenol	ND	340	
120-83-2	2,4-Dichlorophenol	ND	340	
51-28-5	2,4-Dinitrophenol	ND	1400	
121-14-2	2,4-Dinitrotoluene	ND	340	
105-67-9	2,4-dimethylphenol	ND	340	
87-65-0	2,6-Dichlorophenol	ND	340	
606-20-2	2,6-Dinitrotoluene	ND	340	
91-58-7	2-Chloronaphthalene	ND	340	
95-57-8	2-Chlorophenol	ND	340	
91-57-6	2-Methylnaphthalene	**1100**	340	
95-48-7	2-Methylphenol	ND	340	
88-74-4	2-Nitroaniline	ND	340	
88-75-5	2-Nitrophenol	ND	340	
108-39-4/106-44-	3&4-Methylphenol	ND	680	
91-94-1	3,3'-Dichlorobenzidine	ND	340	
56-49-5	3-Methylcholanthrene	ND	340	
99-09-2	3-Nitroaniline	ND	340	
534-52-1	4,6-Dinitro-2-methylphenol	ND	340	
101-55-3	4-Bromophenyl-phenylether	ND	340	
59-50-7	4-Chloro-3-methylphenol	ND	340	
106-47-8	4-Chloroaniline	ND	340	
7005-72-3	4-Chlorophenyl-phenylether	ND	340	
100-01-6	4-Nitroaniline	ND	340	
100-02-7	4-Nitrophenol	ND	680	
56-57-5	4-nitroquinoline-1-oxide	ND	680	
83-32-9	Acenaphthene	**2800**	340	
208-96-8	Acenaphthylene	**1000**	340	
98-86-2	Acetophenone	ND	340	
62-53-3	Aniline	ND	340	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	73%
Dry Weight Extracted:	7.33 grams	Extract Dilution:	1
Wet Weight Extracted:	10.079 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**6100**	340	
140-57-8	Aramite	ND	340	
103-33-3	Azobenzene	ND	340	
92-87-5	Benzidine	ND	340	
56-55-3	Benzo(a)anthracene	**19000**	1700	
50-32-8	Benzo(a)pyrene	**17000**	1700	
205-99-2	Benzo(b)fluoranthene	**14000**	1700	
191-24-2	Benzo(g,h,i)perylene	**7200**	340	
207-08-9	Benzo(k)fluoranthene	**14000**	1700	
65-85-0	Benzoic acid	ND	340	
100-51-6	Benzyl alcohol	ND	340	
111-44-4	Bis(2-Chloroethyl)ether	ND	340	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	340	
85-68-7	Butylbenzylphthalate	ND	340	
86-74-8	Carbazole	**4400**	340	
510-15-6	Chlorobenzilate	ND	340	
218-01-9	Chrysene	**21000**	1700	
84-74-2	Di-n-butylphthalate	ND	340	
117-84-0	Di-n-octyl phthalate	ND	340	
53-70-3	Dibenz(a,h)anthracene	**2100**	340	
132-64-9	Dibenzofuran	**2400**	340	
84-66-2	Diethylphthalate	ND	340	
131-11-3	Dimethyl phthalate	ND	340	
88-85-7	Dinoseb	ND	340	
62-50-0	Ethyl methanesulfonate	ND	340	
206-44-0	Fluoranthene	**44000**	1700	
86-73-7	Fluorene	**3200**	340	
118-74-1	Hexachlorobenzene	ND	340	
87-68-3	Hexachlorobutadiene	ND	340	
77-47-4	Hexachlorocyclopentadiene	ND	340	
67-72-1	Hexachloroethane	ND	340	
1888-71-7	Hexachloropropene	ND	340	
193-39-5	Indeno(1,2,3-cd)pyrene	**7000**	340	
465-73-6	Isodrin	ND	340	
78-59-1	Isophorone	ND	340	
120-58-1	Isosafrole	ND	340	
143-50-0	Kepone	ND	340	
66-27-3	Methyl methanesulfonate	ND	340	
86-30-6	N-Nitrosodiphenylamine	ND	340	
621-64-7	N-nitroso-di-n-propylamine	ND	340	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	73%
Dry Weight Extracted:	7.33 grams	Extract Dilution:	1
Wet Weight Extracted:	10.079 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	340	
91-20-3	Naphthalene	**2200**	340	
98-95-3	Nitrobenzene	ND	340	
608-93-5	Pentachlorobenzene	ND	340	
82-68-8	Pentachloronitrobenzene	ND	340	
87-86-5	Pentachlorophenol	ND	1400	
62-44-2	Phenacetin	ND	340	
85-01-8	Phenanthrene	**35000**	1700	
108-95-2	Phenol	ND	340	
129-00-0	Pyrene	**38000**	1700	
110-86-1	Pyridine	ND	340	
94-59-7	Safrole	ND	340	
111-91-1	bis(-2-Chloroethoxy)methane	ND	340	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	80	22 - 97
Phenol-d6 (SS2)	80	23 - 99
Nitrobenzene-d5 (SS3)	80	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	95	12 - 127
p-Terphenyl-d14 (SS6)	100	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Phenanthrene, fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b0fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene are reported from a 5x dilution

Tentatively Identified non-Target Compounds

2-methyl phenanthrene	5,300	ppb	J
4H-Cyclopenta[def]phenanthrene	7,500	ppb	J
9,10-Anthracenedione	5,400	ppb	J
Benzo[e]pyrene	7,200	ppb	J

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.111 grams	Extract Dilution:	1
Wet Weight Extracted:	10.134 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	310	
120-82-1	1,2,4-Trichlorobenzene	ND	310	
95-50-1	1,2-Dichlorobenzene	ND	310	
541-73-1	1,3-Dichlorobenzene	ND	310	
99-65-0	1,3-Dinitrobenzene	ND	310	
106-46-7	1,4-Dichlorobenzene	ND	310	
130-15-4	1,4-Naphthoquinone	ND	310	
90-12-0	1-Methylnaphthalene	ND	310	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	310	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	310	
95-95-4	2,4,5-Trichlorophenol	ND	310	
88-06-2	2,4,6-Trichlorophenol	ND	310	
120-83-2	2,4-Dichlorophenol	ND	310	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	310	
105-67-9	2,4-dimethylphenol	ND	310	
87-65-0	2,6-Dichlorophenol	ND	310	
606-20-2	2,6-Dinitrotoluene	ND	310	
91-58-7	2-Chloronaphthalene	ND	310	
95-57-8	2-Chlorophenol	ND	310	
91-57-6	2-Methylnaphthalene	**330**	310	
95-48-7	2-Methylphenol	ND	310	
88-74-4	2-Nitroaniline	ND	310	
88-75-5	2-Nitrophenol	ND	310	
108-39-4/106-44-	3&4-Methylphenol	ND	620	
91-94-1	3,3'-Dichlorobenzidine	ND	310	
56-49-5	3-Methylcholanthrene	ND	310	
99-09-2	3-Nitroaniline	ND	310	
534-52-1	4,6-Dinitro-2-methylphenol	ND	310	
101-55-3	4-Bromophenyl-phenylether	ND	310	
59-50-7	4-Chloro-3-methylphenol	ND	310	
106-47-8	4-Chloroaniline	ND	310	
7005-72-3	4-Chlorophenyl-phenylether	ND	310	
100-01-6	4-Nitroaniline	ND	310	
100-02-7	4-Nitrophenol	ND	620	
56-57-5	4-nitroquinoline-1-oxide	ND	620	
83-32-9	Acenaphthene	**700**	310	
208-96-8	Acenaphthylene	**380**	310	
98-86-2	Acetophenone	ND	310	
62-53-3	Aniline	ND	310	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.111 grams	Extract Dilution:	1
Wet Weight Extracted:	10.134 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1700**	310	
140-57-8	Aramite	ND	310	
103-33-3	Azobenzene	ND	310	
92-87-5	Benzidine	ND	310	
56-55-3	Benzo(a)anthracene	**5000**	310	
50-32-8	Benzo(a)pyrene	**4700**	310	
205-99-2	Benzo(b)fluoranthene	**4800**	310	
191-24-2	Benzo(g,h,i)perylene	**1800**	310	
207-08-9	Benzo(k)fluoranthene	**4800**	310	
65-85-0	Benzoic acid	ND	310	
100-51-6	Benzyl alcohol	ND	310	
111-44-4	Bis(2-Chloroethyl)ether	ND	310	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	310	
85-68-7	Butylbenzylphthalate	ND	310	
86-74-8	Carbazole	**930**	310	
510-15-6	Chlorobenzilate	ND	310	
218-01-9	Chrysene	**5700**	310	
84-74-2	Di-n-butylphthalate	ND	310	
117-84-0	Di-n-octyl phthalate	ND	310	
53-70-3	Dibenz(a,h)anthracene	**630**	310	
132-64-9	Dibenzofuran	**660**	310	
84-66-2	Diethylphthalate	ND	310	
131-11-3	Dimethyl phthalate	ND	310	
88-85-7	Dinoseb	ND	310	
62-50-0	Ethyl methanesulfonate	ND	310	
206-44-0	Fluoranthene	**9600**	310	
86-73-7	Fluorene	**700**	310	
118-74-1	Hexachlorobenzene	ND	310	
87-68-3	Hexachlorobutadiene	ND	310	
77-47-4	Hexachlorocyclopentadiene	ND	310	
67-72-1	Hexachloroethane	ND	310	
1888-71-7	Hexachloropropene	ND	310	
193-39-5	Indeno(1,2,3-cd)pyrene	**1900**	310	
465-73-6	Isodrin	ND	310	
78-59-1	Isophorone	ND	310	
120-58-1	Isosafrole	ND	310	
143-50-0	Kepone	ND	310	
66-27-3	Methyl methanesulfonate	ND	310	
86-30-6	N-Nitrosodiphenylamine	ND	310	
621-64-7	N-nitroso-di-n-propylamine	ND	310	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	80%
Dry Weight Extracted:	8.111 grams	Extract Dilution:	1
Wet Weight Extracted:	10.134 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	310	
91-20-3	Naphthalene	**730**	310	
98-95-3	Nitrobenzene	ND	310	
608-93-5	Pentachlorobenzene	ND	310	
82-68-8	Pentachloronitrobenzene	ND	310	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	310	
85-01-8	Phenanthrene	**7600**	310	
108-95-2	Phenol	ND	310	
129-00-0	Pyrene	**8800**	310	
110-86-1	Pyridine	ND	310	
94-59-7	Safrole	ND	310	
111-91-1	bis(-2-Chloroethoxy)methane	ND	310	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	95	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	3,700	ppb	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.184 grams	Extract Dilution:	1
Wet Weight Extracted:	10.026 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	310	
120-82-1	1,2,4-Trichlorobenzene	ND	310	
95-50-1	1,2-Dichlorobenzene	ND	310	
541-73-1	1,3-Dichlorobenzene	ND	310	
99-65-0	1,3-Dinitrobenzene	ND	310	
106-46-7	1,4-Dichlorobenzene	ND	310	
130-15-4	1,4-Naphthoquinone	ND	310	
90-12-0	1-Methylnaphthalene	ND	310	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	310	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	310	
95-95-4	2,4,5-Trichlorophenol	ND	310	
88-06-2	2,4,6-Trichlorophenol	ND	310	
120-83-2	2,4-Dichlorophenol	ND	310	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	310	
105-67-9	2,4-dimethylphenol	ND	310	
87-65-0	2,6-Dichlorophenol	ND	310	
606-20-2	2,6-Dinitrotoluene	ND	310	
91-58-7	2-Chloronaphthalene	ND	310	
95-57-8	2-Chlorophenol	ND	310	
91-57-6	2-Methylnaphthalene	ND	310	
95-48-7	2-Methylphenol	ND	310	
88-74-4	2-Nitroaniline	ND	310	
88-75-5	2-Nitrophenol	ND	310	
108-39-4/106-44-	3&4-Methylphenol	ND	610	
91-94-1	3,3'-Dichlorobenzidine	ND	310	
56-49-5	3-Methylcholanthrene	ND	310	
99-09-2	3-Nitroaniline	ND	310	
534-52-1	4,6-Dinitro-2-methylphenol	ND	310	
101-55-3	4-Bromophenyl-phenylether	ND	310	
59-50-7	4-Chloro-3-methylphenol	ND	310	
106-47-8	4-Chloroaniline	ND	310	
7005-72-3	4-Chlorophenyl-phenylether	ND	310	
100-01-6	4-Nitroaniline	ND	310	
100-02-7	4-Nitrophenol	ND	610	
56-57-5	4-nitroquinoline-1-oxide	ND	610	
83-32-9	Acenaphthene	**510**	310	
208-96-8	Acenaphthylene	ND	310	
98-86-2	Acetophenone	ND	310	
62-53-3	Aniline	ND	310	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.184 grams	Extract Dilution:	1
Wet Weight Extracted:	10.026 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1800**	310	
140-57-8	Aramite	ND	310	
103-33-3	Azobenzene	ND	310	
92-87-5	Benzidine	ND	310	
56-55-3	Benzo(a)anthracene	**5000**	310	
50-32-8	Benzo(a)pyrene	**4500**	310	
205-99-2	Benzo(b)fluoranthene	**4200**	310	
191-24-2	Benzo(g,h,i)perylene	**1500**	310	
207-08-9	Benzo(k)fluoranthene	**4400**	310	
65-85-0	Benzoic acid	ND	310	
100-51-6	Benzyl alcohol	ND	310	
111-44-4	Bis(2-Chloroethyl)ether	ND	310	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	310	
85-68-7	Butylbenzylphthalate	ND	310	
86-74-8	Carbazole	**480**	310	
510-15-6	Chlorobenzilate	ND	310	
218-01-9	Chrysene	**5000**	310	
84-74-2	Di-n-butylphthalate	ND	310	
117-84-0	Di-n-octyl phthalate	ND	310	
53-70-3	Dibenz(a,h)anthracene	**560**	310	
132-64-9	Dibenzofuran	**430**	310	
84-66-2	Diethylphthalate	ND	310	
131-11-3	Dimethyl phthalate	ND	310	
88-85-7	Dinoseb	ND	310	
62-50-0	Ethyl methanesulfonate	ND	310	
206-44-0	Fluoranthene	**8500**	310	
86-73-7	Fluorene	**580**	310	
118-74-1	Hexachlorobenzene	ND	310	
87-68-3	Hexachlorobutadiene	ND	310	
77-47-4	Hexachlorocyclopentadiene	ND	310	
67-72-1	Hexachloroethane	ND	310	
1888-71-7	Hexachloropropene	ND	310	
193-39-5	Indeno(1,2,3-cd)pyrene	**1700**	310	
465-73-6	Isodrin	ND	310	
78-59-1	Isophorone	ND	310	
120-58-1	Isosafrole	ND	310	
143-50-0	Kepone	ND	310	
66-27-3	Methyl methanesulfonate	ND	310	
86-30-6	N-Nitrosodiphenylamine	ND	310	
621-64-7	N-nitroso-di-n-propylamine	ND	310	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	82%
Dry Weight Extracted:	8.184 grams	Extract Dilution:	1
Wet Weight Extracted:	10.026 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	310	
91-20-3	Naphthalene	**350**	310	
98-95-3	Nitrobenzene	ND	310	
608-93-5	Pentachlorobenzene	ND	310	
82-68-8	Pentachloronitrobenzene	ND	310	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	310	
85-01-8	Phenanthrene	**5800**	310	
108-95-2	Phenol	ND	310	
129-00-0	Pyrene	**8100**	310	
110-86-1	Pyridine	ND	310	
94-59-7	Safrole	ND	310	
111-91-1	bis(-2-Chloroethoxy)methane	ND	310	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	85	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	2,800	ppb	J

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	74%
Dry Weight Extracted:	7.416 grams	Extract Dilution:	1
Wet Weight Extracted:	10.022 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	340	
120-82-1	1,2,4-Trichlorobenzene	ND	340	
95-50-1	1,2-Dichlorobenzene	ND	340	
541-73-1	1,3-Dichlorobenzene	ND	340	
99-65-0	1,3-Dinitrobenzene	ND	340	
106-46-7	1,4-Dichlorobenzene	ND	340	
130-15-4	1,4-Naphthoquinone	ND	340	
90-12-0	1-Methylnaphthalene	**460**	340	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	340	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	340	
95-95-4	2,4,5-Trichlorophenol	ND	340	
88-06-2	2,4,6-Trichlorophenol	ND	340	
120-83-2	2,4-Dichlorophenol	ND	340	
51-28-5	2,4-Dinitrophenol	ND	1400	
121-14-2	2,4-Dinitrotoluene	ND	340	
105-67-9	2,4-dimethylphenol	ND	340	
87-65-0	2,6-Dichlorophenol	ND	340	
606-20-2	2,6-Dinitrotoluene	ND	340	
91-58-7	2-Chloronaphthalene	ND	340	
95-57-8	2-Chlorophenol	ND	340	
91-57-6	2-Methylnaphthalene	**480**	340	
95-48-7	2-Methylphenol	ND	340	
88-74-4	2-Nitroaniline	ND	340	
88-75-5	2-Nitrophenol	ND	340	
108-39-4/106-44-	3&4-Methylphenol	ND	680	
91-94-1	3,3'-Dichlorobenzidine	ND	340	
56-49-5	3-Methylcholanthrene	ND	340	
99-09-2	3-Nitroaniline	ND	340	
534-52-1	4,6-Dinitro-2-methylphenol	ND	340	
101-55-3	4-Bromophenyl-phenylether	ND	340	
59-50-7	4-Chloro-3-methylphenol	ND	340	
106-47-8	4-Chloroaniline	ND	340	
7005-72-3	4-Chlorophenyl-phenylether	ND	340	
100-01-6	4-Nitroaniline	ND	340	
100-02-7	4-Nitrophenol	ND	680	
56-57-5	4-nitroquinoline-1-oxide	ND	680	
83-32-9	Acenaphthene	**1200**	340	
208-96-8	Acenaphthylene	**820**	340	
98-86-2	Acetophenone	ND	340	
62-53-3	Aniline	ND	340	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	74%
Dry Weight Extracted:	7.416 grams	Extract Dilution:	1
Wet Weight Extracted:	10.022 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**3500**	340	
140-57-8	Aramite	ND	340	
103-33-3	Azobenzene	ND	340	
92-87-5	Benzidine	ND	340	
56-55-3	Benzo(a)anthracene	**8400**	340	
50-32-8	Benzo(a)pyrene	**7500**	340	
205-99-2	Benzo(b)fluoranthene	**8300**	340	
191-24-2	Benzo(g,h,i)perylene	**2700**	340	
207-08-9	Benzo(k)fluoranthene	**7100**	340	
65-85-0	Benzoic acid	ND	340	
100-51-6	Benzyl alcohol	ND	340	
111-44-4	Bis(2-Chloroethyl)ether	ND	340	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	340	
85-68-7	Butylbenzylphthalate	ND	340	
86-74-8	Carbazole	**1300**	340	
510-15-6	Chlorobenzilate	ND	340	
218-01-9	Chrysene	**9100**	340	
84-74-2	Di-n-butylphthalate	ND	340	
117-84-0	Di-n-octyl phthalate	ND	340	
53-70-3	Dibenz(a,h)anthracene	**950**	340	
132-64-9	Dibenzofuran	**1300**	340	
84-66-2	Diethylphthalate	ND	340	
131-11-3	Dimethyl phthalate	ND	340	
88-85-7	Dinoseb	ND	340	
62-50-0	Ethyl methanesulfonate	ND	340	
206-44-0	Fluoranthene	**13000**	340	
86-73-7	Fluorene	**1700**	340	
118-74-1	Hexachlorobenzene	ND	340	
87-68-3	Hexachlorobutadiene	ND	340	
77-47-4	Hexachlorocyclopentadiene	ND	340	
67-72-1	Hexachloroethane	ND	340	
1888-71-7	Hexachloropropene	ND	340	
193-39-5	Indeno(1,2,3-cd)pyrene	**3000**	340	
465-73-6	Isodrin	ND	340	
78-59-1	Isophorone	ND	340	
120-58-1	Isosafrole	ND	340	
143-50-0	Kepone	ND	340	
66-27-3	Methyl methanesulfonate	ND	340	
86-30-6	N-Nitrosodiphenylamine	ND	340	
621-64-7	N-nitroso-di-n-propylamine	ND	340	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	74%
Dry Weight Extracted:	7.416 grams	Extract Dilution:	1
Wet Weight Extracted:	10.022 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	340	
91-20-3	Naphthalene	**850**	340	
98-95-3	Nitrobenzene	ND	340	
608-93-5	Pentachlorobenzene	ND	340	
82-68-8	Pentachloronitrobenzene	ND	340	
87-86-5	Pentachlorophenol	ND	1400	
62-44-2	Phenacetin	ND	340	
85-01-8	Phenanthrene	**12000**	340	
108-95-2	Phenol	ND	340	
129-00-0	Pyrene	**13000**	340	
110-86-1	Pyridine	ND	340	
94-59-7	Safrole	ND	340	
111-91-1	bis(-2-Chloroethoxy)methane	ND	340	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	65	22 - 97
Phenol-d6 (SS2)	68	23 - 99
Nitrobenzene-d5 (SS3)	65	20 - 98
2-Fluorobiphenyl (SS4)	70	23 - 104
2,4,6-Tribromophenol (SS5)	80	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[j]fluoranthene	5,300	ppb	J

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/30/12	Percent Solids:	100%
Dry Weight Extracted:	10.077 grams	Extract Dilution:	1
Wet Weight Extracted:	10.087 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	
120-82-1	1,2,4-Trichlorobenzene	ND	250	
95-50-1	1,2-Dichlorobenzene	ND	250	
541-73-1	1,3-Dichlorobenzene	ND	250	
99-65-0	1,3-Dinitrobenzene	ND	250	
106-46-7	1,4-Dichlorobenzene	ND	250	
130-15-4	1,4-Naphthoquinone	ND	250	
90-12-0	1-Methylnaphthalene	ND	250	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	250	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	
95-95-4	2,4,5-Trichlorophenol	ND	250	
88-06-2	2,4,6-Trichlorophenol	ND	250	
120-83-2	2,4-Dichlorophenol	ND	250	
51-28-5	2,4-Dinitrophenol	ND	990	
121-14-2	2,4-Dinitrotoluene	ND	250	
105-67-9	2,4-dimethylphenol	ND	250	
87-65-0	2,6-Dichlorophenol	ND	250	
606-20-2	2,6-Dinitrotoluene	ND	250	
91-58-7	2-Chloronaphthalene	ND	250	
95-57-8	2-Chlorophenol	ND	250	
91-57-6	2-Methylnaphthalene	ND	250	
95-48-7	2-Methylphenol	ND	250	
88-74-4	2-Nitroaniline	ND	250	
88-75-5	2-Nitrophenol	ND	250	
108-39-4/106-44-	3&4-Methylphenol	ND	500	
91-94-1	3,3'-Dichlorobenzidine	ND	250	
56-49-5	3-Methylcholanthrene	ND	250	
99-09-2	3-Nitroaniline	ND	250	
534-52-1	4,6-Dinitro-2-methylphenol	ND	250	
101-55-3	4-Bromophenyl-phenylether	ND	250	
59-50-7	4-Chloro-3-methylphenol	ND	250	
106-47-8	4-Chloroaniline	ND	250	
7005-72-3	4-Chlorophenyl-phenylether	ND	250	
100-01-6	4-Nitroaniline	ND	250	
100-02-7	4-Nitrophenol	ND	500	
56-57-5	4-nitroquinoline-1-oxide	ND	500	
83-32-9	Acenaphthene	ND	250	
208-96-8	Acenaphthylene	ND	250	
98-86-2	Acetophenone	ND	250	
62-53-3	Aniline	ND	250	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/30/12	Percent Solids:	100%
Dry Weight Extracted:	10.077 grams	Extract Dilution:	1
Wet Weight Extracted:	10.087 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	250	
140-57-8	Aramite	ND	250	
103-33-3	Azobenzene	ND	250	
92-87-5	Benzidine	ND	250	
56-55-3	Benzo(a)anthracene	ND	250	
50-32-8	Benzo(a)pyrene	ND	250	
205-99-2	Benzo(b)fluoranthene	ND	250	
191-24-2	Benzo(g,h,i)perylene	ND	250	
207-08-9	Benzo(k)fluoranthene	ND	250	
65-85-0	Benzoic acid	ND	250	
100-51-6	Benzyl alcohol	ND	250	
111-44-4	Bis(2-Chloroethyl)ether	ND	250	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	250	
85-68-7	Butylbenzylphthalate	ND	250	
86-74-8	Carbazole	ND	250	
510-15-6	Chlorobenzilate	ND	250	
218-01-9	Chrysene	ND	250	
84-74-2	Di-n-butylphthalate	ND	250	
117-84-0	Di-n-octyl phthalate	ND	250	
53-70-3	Dibenz(a,h)anthracene	ND	250	
132-64-9	Dibenzofuran	ND	250	
84-66-2	Diethylphthalate	ND	250	
131-11-3	Dimethyl phthalate	ND	250	
88-85-7	Dinoseb	ND	250	
62-50-0	Ethyl methanesulfonate	ND	250	
206-44-0	Fluoranthene	ND	250	
86-73-7	Fluorene	ND	250	
118-74-1	Hexachlorobenzene	ND	250	
87-68-3	Hexachlorobutadiene	ND	250	
77-47-4	Hexachlorocyclopentadiene	ND	250	
67-72-1	Hexachloroethane	ND	250	
1888-71-7	Hexachloropropene	ND	250	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	250	
465-73-6	Isodrin	ND	250	
78-59-1	Isophorone	ND	250	
120-58-1	Isosafrole	ND	250	
143-50-0	Kepone	ND	250	
66-27-3	Methyl methanesulfonate	ND	250	
86-30-6	N-Nitrosodiphenylamine	ND	250	
621-64-7	N-nitroso-di-n-propylamine	ND	250	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/30/12	Percent Solids:	100%
Dry Weight Extracted:	10.077 grams	Extract Dilution:	1
Wet Weight Extracted:	10.087 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	250	
91-20-3	Naphthalene	ND	250	
98-95-3	Nitrobenzene	ND	250	
608-93-5	Pentachlorobenzene	ND	250	
82-68-8	Pentachloronitrobenzene	ND	250	
87-86-5	Pentachlorophenol	ND	990	
62-44-2	Phenacetin	ND	250	
85-01-8	Phenanthrene	ND	250	
108-95-2	Phenol	ND	250	
129-00-0	Pyrene	ND	250	
110-86-1	Pyridine	ND	250	
94-59-7	Safrole	ND	250	
111-91-1	bis(-2-Chloroethoxy)methane	ND	250	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	53	22 - 97
Phenol-d6 (SS2)	71	23 - 99
Nitrobenzene-d5 (SS3)	77	20 - 98
2-Fluorobiphenyl (SS4)	79	23 - 104
2,4,6-Tribromophenol (SS5)	28	12 - 127
p-Terphenyl-d14 (SS6)	89	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32226
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	84%
Dry Weight Extracted:	8.425 grams	Extract Dilution:	1
Wet Weight Extracted:	10.038 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	300	
120-82-1	1,2,4-Trichlorobenzene	ND	300	
95-50-1	1,2-Dichlorobenzene	ND	300	
541-73-1	1,3-Dichlorobenzene	ND	300	
99-65-0	1,3-Dinitrobenzene	ND	300	
106-46-7	1,4-Dichlorobenzene	ND	300	
130-15-4	1,4-Naphthoquinone	ND	300	
90-12-0	1-Methylnaphthalene	ND	300	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	300	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	300	
95-95-4	2,4,5-Trichlorophenol	ND	300	
88-06-2	2,4,6-Trichlorophenol	ND	300	
120-83-2	2,4-Dichlorophenol	ND	300	
51-28-5	2,4-Dinitrophenol	ND	1200	
121-14-2	2,4-Dinitrotoluene	ND	300	
105-67-9	2,4-dimethylphenol	ND	300	
87-65-0	2,6-Dichlorophenol	ND	300	
606-20-2	2,6-Dinitrotoluene	ND	300	
91-58-7	2-Chloronaphthalene	ND	300	
95-57-8	2-Chlorophenol	ND	300	
91-57-6	2-Methylnaphthalene	ND	300	
95-48-7	2-Methylphenol	ND	300	
88-74-4	2-Nitroaniline	ND	300	
88-75-5	2-Nitrophenol	ND	300	
108-39-4/106-44-	3&4-Methylphenol	ND	600	
91-94-1	3,3'-Dichlorobenzidine	ND	300	
56-49-5	3-Methylcholanthrene	ND	300	
99-09-2	3-Nitroaniline	ND	300	
534-52-1	4,6-Dinitro-2-methylphenol	ND	300	
101-55-3	4-Bromophenyl-phenylether	ND	300	
59-50-7	4-Chloro-3-methylphenol	ND	300	
106-47-8	4-Chloroaniline	ND	300	
7005-72-3	4-Chlorophenyl-phenylether	ND	300	
100-01-6	4-Nitroaniline	ND	300	
100-02-7	4-Nitrophenol	ND	600	
56-57-5	4-nitroquinoline-1-oxide	ND	600	
83-32-9	Acenaphthene	ND	300	
208-96-8	Acenaphthylene	ND	300	
98-86-2	Acetophenone	ND	300	
62-53-3	Aniline	ND	300	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32226
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	84%
Dry Weight Extracted:	8.425 grams	Extract Dilution:	1
Wet Weight Extracted:	10.038 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**480**	300	
140-57-8	Aramite	ND	300	
103-33-3	Azobenzene	ND	300	
92-87-5	Benzidine	ND	300	
56-55-3	Benzo(a)anthracene	**2100**	300	
50-32-8	Benzo(a)pyrene	**2100**	300	
205-99-2	Benzo(b)fluoranthene	**2500**	300	
191-24-2	Benzo(g,h,i)perylene	**980**	300	
207-08-9	Benzo(k)fluoranthene	**2200**	300	
65-85-0	Benzoic acid	ND	300	
100-51-6	Benzyl alcohol	ND	300	
111-44-4	Bis(2-Chloroethyl)ether	ND	300	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	300	
85-68-7	Butylbenzylphthalate	ND	300	
86-74-8	Carbazole	**390**	300	
510-15-6	Chlorobenzilate	ND	300	
218-01-9	Chrysene	**2500**	300	
84-74-2	Di-n-butylphthalate	ND	300	
117-84-0	Di-n-octyl phthalate	ND	300	
53-70-3	Dibenz(a,h)anthracene	**310**	300	
132-64-9	Dibenzofuran	ND	300	
84-66-2	Diethylphthalate	ND	300	
131-11-3	Dimethyl phthalate	ND	300	
88-85-7	Dinoseb	ND	300	
62-50-0	Ethyl methanesulfonate	ND	300	
206-44-0	Fluoranthene	**4600**	300	
86-73-7	Fluorene	ND	300	
118-74-1	Hexachlorobenzene	ND	300	
87-68-3	Hexachlorobutadiene	ND	300	
77-47-4	Hexachlorocyclopentadiene	ND	300	
67-72-1	Hexachloroethane	ND	300	
1888-71-7	Hexachloropropene	ND	300	
193-39-5	Indeno(1,2,3-cd)pyrene	**980**	300	
465-73-6	Isodrin	ND	300	
78-59-1	Isophorone	ND	300	
120-58-1	Isosafrole	ND	300	
143-50-0	Kepone	ND	300	
66-27-3	Methyl methanesulfonate	ND	300	
86-30-6	N-Nitrosodiphenylamine	ND	300	
621-64-7	N-nitroso-di-n-propylamine	ND	300	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32226
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	84%
Dry Weight Extracted:	8.425 grams	Extract Dilution:	1
Wet Weight Extracted:	10.038 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	300	
91-20-3	Naphthalene	ND	300	
98-95-3	Nitrobenzene	ND	300	
608-93-5	Pentachlorobenzene	ND	300	
82-68-8	Pentachloronitrobenzene	ND	300	
87-86-5	Pentachlorophenol	ND	1200	
62-44-2	Phenacetin	ND	300	
85-01-8	Phenanthrene	**3000**	300	
108-95-2	Phenol	ND	300	
129-00-0	Pyrene	**4100**	300	
110-86-1	Pyridine	ND	300	
94-59-7	Safrole	ND	300	
111-91-1	bis(-2-Chloroethoxy)methane	ND	300	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	75	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	75	23 - 104
2,4,6-Tribromophenol (SS5)	85	12 - 127
p-Terphenyl-d14 (SS6)	80	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Tentatively Identified non-Target Compounds

Benzo[e]pyrene	2,400 ppb	J

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.977 grams	Extract Dilution:	5
Wet Weight Extracted:	10.098 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	1600	
120-82-1	1,2,4-Trichlorobenzene	ND	1600	
95-50-1	1,2-Dichlorobenzene	ND	1600	
541-73-1	1,3-Dichlorobenzene	ND	1600	
99-65-0	1,3-Dinitrobenzene	ND	1600	
106-46-7	1,4-Dichlorobenzene	ND	1600	
130-15-4	1,4-Naphthoquinone	ND	1600	
90-12-0	1-Methylnaphthalene	ND	1600	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	1600	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	1600	
95-95-4	2,4,5-Trichlorophenol	ND	1600	
88-06-2	2,4,6-Trichlorophenol	ND	1600	
120-83-2	2,4-Dichlorophenol	ND	1600	
51-28-5	2,4-Dinitrophenol	ND	6300	
121-14-2	2,4-Dinitrotoluene	ND	1600	
105-67-9	2,4-dimethylphenol	ND	1600	
87-65-0	2,6-Dichlorophenol	ND	1600	
606-20-2	2,6-Dinitrotoluene	ND	1600	
91-58-7	2-Chloronaphthalene	ND	1600	
95-57-8	2-Chlorophenol	ND	1600	
91-57-6	2-Methylnaphthalene	ND	1600	
95-48-7	2-Methylphenol	ND	1600	
88-74-4	2-Nitroaniline	ND	1600	
88-75-5	2-Nitrophenol	ND	1600	
108-39-4/106-44-	3&4-Methylphenol	ND	3100	
91-94-1	3,3'-Dichlorobenzidine	ND	1600	
56-49-5	3-Methylcholanthrene	ND	1600	
99-09-2	3-Nitroaniline	ND	1600	
534-52-1	4,6-Dinitro-2-methylphenol	ND	1600	
101-55-3	4-Bromophenyl-phenylether	ND	1600	
59-50-7	4-Chloro-3-methylphenol	ND	1600	
106-47-8	4-Chloroaniline	ND	1600	
7005-72-3	4-Chlorophenyl-phenylether	ND	1600	
100-01-6	4-Nitroaniline	ND	1600	
100-02-7	4-Nitrophenol	ND	3100	
56-57-5	4-nitroquinoline-1-oxide	ND	3100	
83-32-9	Acenaphthene	ND	1600	
208-96-8	Acenaphthylene	ND	1600	
98-86-2	Acetophenone	ND	1600	
62-53-3	Aniline	ND	1600	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.977 grams	Extract Dilution:	5
Wet Weight Extracted:	10.098 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**2300**	1600	
140-57-8	Aramite	ND	1600	
103-33-3	Azobenzene	ND	1600	
92-87-5	Benzidine	ND	1600	
56-55-3	Benzo(a)anthracene	**7800**	1600	
50-32-8	Benzo(a)pyrene	**8200**	1600	
205-99-2	Benzo(b)fluoranthene	**8700**	1600	
191-24-2	Benzo(g,h,i)perylene	**9200**	1600	
207-08-9	Benzo(k)fluoranthene	**6200**	1600	
65-85-0	Benzoic acid	ND	1600	
100-51-6	Benzyl alcohol	ND	1600	
111-44-4	Bis(2-Chloroethyl)ether	ND	1600	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	1600	
85-68-7	Butylbenzylphthalate	ND	1600	
86-74-8	Carbazole	**1600**	1600	
510-15-6	Chlorobenzilate	ND	1600	
218-01-9	Chrysene	**9100**	1600	
84-74-2	Di-n-butylphthalate	ND	1600	
117-84-0	Di-n-octyl phthalate	ND	1600	
53-70-3	Dibenz(a,h)anthracene	ND	1600	
132-64-9	Dibenzofuran	ND	1600	
84-66-2	Diethylphthalate	ND	1600	
131-11-3	Dimethyl phthalate	ND	1600	
88-85-7	Dinoseb	ND	1600	
62-50-0	Ethyl methanesulfonate	ND	1600	
206-44-0	Fluoranthene	**18000**	1600	
86-73-7	Fluorene	ND	1600	
118-74-1	Hexachlorobenzene	ND	1600	
87-68-3	Hexachlorobutadiene	ND	1600	
77-47-4	Hexachlorocyclopentadiene	ND	1600	
67-72-1	Hexachloroethane	ND	1600	
1888-71-7	Hexachloropropene	ND	1600	
193-39-5	Indeno(1,2,3-cd)pyrene	**4800**	1600	
465-73-6	Isodrin	ND	1600	
78-59-1	Isophorone	ND	1600	
120-58-1	Isosafrole	ND	1600	
143-50-0	Kepone	ND	1600	
66-27-3	Methyl methanesulfonate	ND	1600	
86-30-6	N-Nitrosodiphenylamine	ND	1600	
621-64-7	N-nitroso-di-n-propylamine	ND	1600	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	79%
Dry Weight Extracted:	7.977 grams	Extract Dilution:	5
Wet Weight Extracted:	10.098 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	1600	
91-20-3	Naphthalene	ND	1600	
98-95-3	Nitrobenzene	ND	1600	
608-93-5	Pentachlorobenzene	ND	1600	
82-68-8	Pentachloronitrobenzene	ND	1600	
87-86-5	Pentachlorophenol	ND	6300	
62-44-2	Phenacetin	ND	1600	
85-01-8	Phenanthrene	**10000**	1600	
108-95-2	Phenol	ND	1600	
129-00-0	Pyrene	**17000**	1600	
110-86-1	Pyridine	ND	1600	
94-59-7	Safrole	ND	1600	
111-91-1	bis(-2-Chloroethoxy)methane	ND	1600	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	83	22 - 97
Phenol-d6 (SS2)	82	23 - 99
Nitrobenzene-d5 (SS3)	77	20 - 98
2-Fluorobiphenyl (SS4)	88	23 - 104
2,4,6-Tribromophenol (SS5)	108	12 - 127
p-Terphenyl-d14 (SS6)	129	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

recovery of terphenyl-d14 is out of spec.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0090	Lab Sample ID:	AB32231
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.023 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	**530**	250	
120-82-1	1,2,4-Trichlorobenzene	ND	250	
95-50-1	1,2-Dichlorobenzene	ND	250	
541-73-1	1,3-Dichlorobenzene	ND	250	
99-65-0	1,3-Dinitrobenzene	ND	250	
106-46-7	1,4-Dichlorobenzene	ND	250	
130-15-4	1,4-Naphthoquinone	ND	250	
90-12-0	1-Methylnaphthalene	**550**	250	
108-60-1	2,2'-oxybis(1-chloropropane)	**890**	250	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	
95-95-4	2,4,5-Trichlorophenol	**700**	250	
88-06-2	2,4,6-Trichlorophenol	ND	250	
120-83-2	2,4-Dichlorophenol	ND	250	
51-28-5	2,4-Dinitrophenol	**740**	1000	L
121-14-2	2,4-Dinitrotoluene	**340**	250	
105-67-9	2,4-dimethylphenol	ND	250	
87-65-0	2,6-Dichlorophenol	ND	250	
606-20-2	2,6-Dinitrotoluene	**810**	250	
91-58-7	2-Chloronaphthalene	**800**	250	
95-57-8	2-Chlorophenol	ND	250	
91-57-6	2-Methylnaphthalene	ND	250	
95-48-7	2-Methylphenol	ND	250	
88-74-4	2-Nitroaniline	ND	250	
88-75-5	2-Nitrophenol	ND	250	
108-39-4/106-44-	3&4-Methylphenol	ND	500	
91-94-1	3,3'-Dichlorobenzidine	ND	250	
56-49-5	3-Methylcholanthrene	ND	250	
99-09-2	3-Nitroaniline	ND	250	
534-52-1	4,6-Dinitro-2-methylphenol	ND	250	
101-55-3	4-Bromophenyl-phenylether	**570**	250	
59-50-7	4-Chloro-3-methylphenol	ND	250	
106-47-8	4-Chloroaniline	ND	250	
7005-72-3	4-Chlorophenyl-phenylether	**460**	250	
100-01-6	4-Nitroaniline	ND	250	
100-02-7	4-Nitrophenol	ND	500	
56-57-5	4-nitroquinoline-1-oxide	ND	500	
83-32-9	Acenaphthene	ND	250	
208-96-8	Acenaphthylene	**260**	250	
98-86-2	Acetophenone	ND	250	
62-53-3	Aniline	ND	250	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0090	Lab Sample ID:	AB32231
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.023 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**380**	250	
140-57-8	Aramite	ND	250	
103-33-3	Azobenzene	ND	250	
92-87-5	Benzidine	ND	250	
56-55-3	Benzo(a)anthracene	**650**	250	
50-32-8	Benzo(a)pyrene	ND	250	
205-99-2	Benzo(b)fluoranthene	**710**	250	
191-24-2	Benzo(g,h,i)perylene	ND	250	
207-08-9	Benzo(k)fluoranthene	**380**	250	
65-85-0	Benzoic acid	ND	250	
100-51-6	Benzyl alcohol	ND	250	
111-44-4	Bis(2-Chloroethyl)ether	**1200**	250	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	250	
85-68-7	Butylbenzylphthalate	**740**	250	
86-74-8	Carbazole	**430**	250	
510-15-6	Chlorobenzilate	ND	250	
218-01-9	Chrysene	ND	250	
84-74-2	Di-n-butylphthalate	ND	250	
117-84-0	Di-n-octyl phthalate	**690**	250	
53-70-3	Dibenz(a,h)anthracene	ND	250	
132-64-9	Dibenzofuran	**360**	250	
84-66-2	Diethylphthalate	ND	250	
131-11-3	Dimethyl phthalate	ND	250	
88-85-7	Dinoseb	ND	250	
62-50-0	Ethyl methanesulfonate	ND	250	
206-44-0	Fluoranthene	ND	250	
86-73-7	Fluorene	**870**	250	
118-74-1	Hexachlorobenzene	**450**	250	
87-68-3	Hexachlorobutadiene	ND	250	
77-47-4	Hexachlorocyclopentadiene	**560**	250	
67-72-1	Hexachloroethane	**430**	250	
1888-71-7	Hexachloropropene	ND	250	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	250	
465-73-6	Isodrin	ND	250	
78-59-1	Isophorone	**390**	250	
120-58-1	Isosafrole	ND	250	
143-50-0	Kepone	ND	250	
66-27-3	Methyl methanesulfonate	ND	250	
86-30-6	N-Nitrosodiphenylamine	ND	250	
621-64-7	N-nitroso-di-n-propylamine	**640**	250	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0090	Lab Sample ID:	AB32231
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.023 grams	Extract Dilution:	1
Wet Weight Extracted:	10.023 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	250	
91-20-3	Naphthalene	**270**	250	
98-95-3	Nitrobenzene	ND	250	
608-93-5	Pentachlorobenzene	ND	250	
82-68-8	Pentachloronitrobenzene	ND	250	
87-86-5	Pentachlorophenol	**2200**	1000	J
62-44-2	Phenacetin	ND	250	
85-01-8	Phenanthrene	ND	250	
108-95-2	Phenol	ND	250	
129-00-0	Pyrene	ND	250	
110-86-1	Pyridine	ND	250	
94-59-7	Safrole	ND	250	
111-91-1	bis(-2-Chloroethoxy)methane	**1300**	250	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	75	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	90	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Pentachlorophenol is out of spec in the CCV.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0091	Lab Sample ID:	AB32232
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.107 grams	Extract Dilution:	1
Wet Weight Extracted:	10.107 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	
120-82-1	1,2,4-Trichlorobenzene	ND	250	
95-50-1	1,2-Dichlorobenzene	ND	250	
541-73-1	1,3-Dichlorobenzene	ND	250	
99-65-0	1,3-Dinitrobenzene	ND	250	
106-46-7	1,4-Dichlorobenzene	ND	250	
130-15-4	1,4-Naphthoquinone	ND	250	
90-12-0	1-Methylnaphthalene	ND	250	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	250	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	
95-95-4	2,4,5-Trichlorophenol	ND	250	
88-06-2	2,4,6-Trichlorophenol	**2300**	250	
120-83-2	2,4-Dichlorophenol	ND	250	
51-28-5	2,4-Dinitrophenol	ND	990	
121-14-2	2,4-Dinitrotoluene	ND	250	
105-67-9	2,4-dimethylphenol	ND	250	
87-65-0	2,6-Dichlorophenol	ND	250	
606-20-2	2,6-Dinitrotoluene	ND	250	
91-58-7	2-Chloronaphthalene	ND	250	
95-57-8	2-Chlorophenol	ND	250	
91-57-6	2-Methylnaphthalene	**2200**	250	
95-48-7	2-Methylphenol	ND	250	
88-74-4	2-Nitroaniline	ND	250	
88-75-5	2-Nitrophenol	ND	250	
108-39-4/106-44-	3&4-Methylphenol	ND	490	
91-94-1	3,3'-Dichlorobenzidine	ND	250	
56-49-5	3-Methylcholanthrene	ND	250	
99-09-2	3-Nitroaniline	ND	250	
534-52-1	4,6-Dinitro-2-methylphenol	ND	250	
101-55-3	4-Bromophenyl-phenylether	ND	250	
59-50-7	4-Chloro-3-methylphenol	ND	250	
106-47-8	4-Chloroaniline	ND	250	
7005-72-3	4-Chlorophenyl-phenylether	ND	250	
100-01-6	4-Nitroaniline	ND	250	
100-02-7	4-Nitrophenol	ND	490	
56-57-5	4-nitroquinoline-1-oxide	ND	490	
83-32-9	Acenaphthene	ND	250	
208-96-8	Acenaphthylene	**960**	250	
98-86-2	Acetophenone	ND	250	
62-53-3	Aniline	ND	250	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0091	Lab Sample ID:	AB32232
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.107 grams	Extract Dilution:	1
Wet Weight Extracted:	10.107 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	**1600**	250	
140-57-8	Aramite	ND	250	
103-33-3	Azobenzene	ND	250	
92-87-5	Benzidine	ND	250	
56-55-3	Benzo(a)anthracene	**1600**	250	
50-32-8	Benzo(a)pyrene	ND	250	
205-99-2	Benzo(b)fluoranthene	ND	250	
191-24-2	Benzo(g,h,i)perylene	**2100**	250	
207-08-9	Benzo(k)fluoranthene	ND	250	
65-85-0	Benzoic acid	ND	250	
100-51-6	Benzyl alcohol	ND	250	
111-44-4	Bis(2-Chloroethyl)ether	ND	250	
117-81-7	Bis(2-ethylhexyl)phthalate	**2000**	250	
85-68-7	Butylbenzylphthalate	ND	250	
86-74-8	Carbazole	**2400**	250	
510-15-6	Chlorobenzilate	ND	250	
218-01-9	Chrysene	ND	250	
84-74-2	Di-n-butylphthalate	ND	250	
117-84-0	Di-n-octyl phthalate	**2200**	250	
53-70-3	Dibenz(a,h)anthracene	**2100**	250	
132-64-9	Dibenzofuran	**2400**	250	
84-66-2	Diethylphthalate	**1900**	250	
131-11-3	Dimethyl phthalate	ND	250	
88-85-7	Dinoseb	ND	250	
62-50-0	Ethyl methanesulfonate	ND	250	
206-44-0	Fluoranthene	**2000**	250	
86-73-7	Fluorene	ND	250	
118-74-1	Hexachlorobenzene	**1600**	250	
87-68-3	Hexachlorobutadiene	ND	250	
77-47-4	Hexachlorocyclopentadiene	ND	250	
67-72-1	Hexachloroethane	ND	250	
1888-71-7	Hexachloropropene	ND	250	
193-39-5	Indeno(1,2,3-cd)pyrene	**1800**	250	
465-73-6	Isodrin	ND	250	
78-59-1	Isophorone	**2500**	250	
120-58-1	Isosafrole	ND	250	
143-50-0	Kepone	ND	250	
66-27-3	Methyl methanesulfonate	ND	250	
86-30-6	N-Nitrosodiphenylamine	ND	250	
621-64-7	N-nitroso-di-n-propylamine	ND	250	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0091	Lab Sample ID:	AB32232
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.107 grams	Extract Dilution:	1
Wet Weight Extracted:	10.107 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	250	
91-20-3	Naphthalene	**2800**	250	
98-95-3	Nitrobenzene	**2000**	250	
608-93-5	Pentachlorobenzene	ND	250	
82-68-8	Pentachloronitrobenzene	ND	250	
87-86-5	Pentachlorophenol	**4700**	990	J
62-44-2	Phenacetin	ND	250	
85-01-8	Phenanthrene	ND	250	
108-95-2	Phenol	**2200**	250	
129-00-0	Pyrene	ND	250	
110-86-1	Pyridine	ND	250	
94-59-7	Safrole	ND	250	
111-91-1	bis(-2-Chloroethoxy)methane	ND	250	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	75	22 - 97
Phenol-d6 (SS2)	80	23 - 99
Nitrobenzene-d5 (SS3)	80	20 - 98
2-Fluorobiphenyl (SS4)	85	23 - 104
2,4,6-Tribromophenol (SS5)	70	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

Pentachlorophenol was out of spec in the CCV.

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0092	Lab Sample ID:	AB32233
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.031 grams	Extract Dilution:	1
Wet Weight Extracted:	10.031 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	250	
120-82-1	1,2,4-Trichlorobenzene	ND	250	
95-50-1	1,2-Dichlorobenzene	ND	250	
541-73-1	1,3-Dichlorobenzene	ND	250	
99-65-0	1,3-Dinitrobenzene	ND	250	
106-46-7	1,4-Dichlorobenzene	ND	250	
130-15-4	1,4-Naphthoquinone	ND	250	
90-12-0	1-Methylnaphthalene	ND	250	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	250	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	250	
95-95-4	2,4,5-Trichlorophenol	ND	250	
88-06-2	2,4,6-Trichlorophenol	ND	250	
120-83-2	2,4-Dichlorophenol	**1900**	250	
51-28-5	2,4-Dinitrophenol	ND	1000	
121-14-2	2,4-Dinitrotoluene	ND	250	
105-67-9	2,4-dimethylphenol	ND	250	
87-65-0	2,6-Dichlorophenol	ND	250	
606-20-2	2,6-Dinitrotoluene	ND	250	
91-58-7	2-Chloronaphthalene	**2100**	250	
95-57-8	2-Chlorophenol	**1600**	250	
91-57-6	2-Methylnaphthalene	**2000**	250	
95-48-7	2-Methylphenol	ND	250	
88-74-4	2-Nitroaniline	ND	250	
88-75-5	2-Nitrophenol	ND	250	
108-39-4/106-44-	3&4-Methylphenol	ND	500	
91-94-1	3,3'-Dichlorobenzidine	ND	250	
56-49-5	3-Methylcholanthrene	ND	250	
99-09-2	3-Nitroaniline	ND	250	
534-52-1	4,6-Dinitro-2-methylphenol	**1700**	250	
101-55-3	4-Bromophenyl-phenylether	ND	250	
59-50-7	4-Chloro-3-methylphenol	ND	250	
106-47-8	4-Chloroaniline	ND	250	
7005-72-3	4-Chlorophenyl-phenylether	ND	250	
100-01-6	4-Nitroaniline	ND	250	
100-02-7	4-Nitrophenol	ND	500	
56-57-5	4-nitroquinoline-1-oxide	ND	500	
83-32-9	Acenaphthene	**1200**	250	
208-96-8	Acenaphthylene	ND	250	
98-86-2	Acetophenone	**1700**	250	
62-53-3	Aniline	ND	250	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0092	Lab Sample ID:	AB32233
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.031 grams	Extract Dilution:	1
Wet Weight Extracted:	10.031 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
120-12-7	Anthracene	ND	250	
140-57-8	Aramite	ND	250	
103-33-3	Azobenzene	ND	250	
92-87-5	Benzidine	ND	250	
56-55-3	Benzo(a)anthracene	ND	250	
50-32-8	Benzo(a)pyrene	ND	250	
205-99-2	Benzo(b)fluoranthene	ND	250	
191-24-2	Benzo(g,h,i)perylene	**1600**	250	
207-08-9	Benzo(k)fluoranthene	ND	250	
65-85-0	Benzoic acid	ND	250	
100-51-6	Benzyl alcohol	ND	250	
111-44-4	Bis(2-Chloroethyl)ether	ND	250	
117-81-7	Bis(2-ethylhexyl)phthalate	**1700**	250	
85-68-7	Butylbenzylphthalate	**1800**	250	
86-74-8	Carbazole	**2300**	250	
510-15-6	Chlorobenzilate	ND	250	
218-01-9	Chrysene	ND	250	
84-74-2	Di-n-butylphthalate	ND	250	
117-84-0	Di-n-octyl phthalate	ND	250	
53-70-3	Dibenz(a,h)anthracene	**1600**	250	
132-64-9	Dibenzofuran	ND	250	
84-66-2	Diethylphthalate	ND	250	
131-11-3	Dimethyl phthalate	ND	250	
88-85-7	Dinoseb	ND	250	
62-50-0	Ethyl methanesulfonate	ND	250	
206-44-0	Fluoranthene	ND	250	
86-73-7	Fluorene	**1300**	250	
118-74-1	Hexachlorobenzene	ND	250	
87-68-3	Hexachlorobutadiene	ND	250	
77-47-4	Hexachlorocyclopentadiene	ND	250	
67-72-1	Hexachloroethane	**1500**	250	
1888-71-7	Hexachloropropene	ND	250	
193-39-5	Indeno(1,2,3-cd)pyrene	**2100**	250	
465-73-6	Isodrin	ND	250	
78-59-1	Isophorone	ND	250	
120-58-1	Isosafrole	ND	250	
143-50-0	Kepone	ND	250	
66-27-3	Methyl methanesulfonate	ND	250	
86-30-6	N-Nitrosodiphenylamine	ND	250	
621-64-7	N-nitroso-di-n-propylamine	ND	250	

Kiley Barrel Allen St - Somerville, MA

BNAs in Soils Medium Level

Client Sample ID:	12060001-0092	Lab Sample ID:	AB32233
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	8/29/12	Volume Purged:	N/A
Date of Analysis:	8/29/12	Percent Solids:	100%
Dry Weight Extracted:	10.031 grams	Extract Dilution:	1
Wet Weight Extracted:	10.031 grams	pH:	N/A

CAS Number	Compound	Concentration ug/Kg	RL ug/Kg	Qualifier
62-75-9	N-nitrosodimethylamine	ND	250	
91-20-3	Naphthalene	**2000**	250	
98-95-3	Nitrobenzene	ND	250	
608-93-5	Pentachlorobenzene	ND	250	
82-68-8	Pentachloronitrobenzene	ND	250	
87-86-5	Pentachlorophenol	ND	1000	
62-44-2	Phenacetin	ND	250	
85-01-8	Phenanthrene	**1500**	250	
108-95-2	Phenol	ND	250	
129-00-0	Pyrene	**2000**	250	
110-86-1	Pyridine	ND	250	
94-59-7	Safrole	ND	250	
111-91-1	bis(-2-Chloroethoxy)methane	ND	250	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	73	22 - 97
Phenol-d6 (SS2)	78	23 - 99
Nitrobenzene-d5 (SS3)	70	20 - 98
2-Fluorobiphenyl (SS4)	80	23 - 104
2,4,6-Tribromophenol (SS5)	80	12 - 127
p-Terphenyl-d14 (SS6)	95	23 - 120

Comments:

The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitroquinoline-1-oxide have been raised to reflect the calibration range of the method.

MATRIX SPIKE (MS)

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32226

PARAMETER	SPIKE ADDED ug/Kg	SAMPLE CONCENTRATION ug/Kg	MS CONCENTRATION ug/Kg	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	4,750	ND	3100	65	47 - 97
1,2,4-Trichlorobenzene	4,750	ND	2900	61	46 - 95
1,2-Dichlorobenzene	4,750	ND	2600	55	42 - 90
1,3-Dichlorobenzene	4,750	ND	2500	53	41 - 86
1,3-Dinitrobenzene	4,750	ND	3300	70	36 - 117
1,4-Dichlorobenzene	4,750	ND	2500	53	41 - 86
1,4-Naphthoquinone	4,750	ND	2600	55	10 - 123
1-Methylnaphthalene	4,750	ND	3000	63	49 - 99
2,2'-oxybis(1-chloropropane)	4,750	ND	2700	57	35 - 117
2,3,4,6-Tetrachlorophenol	4,750	ND	4200	88	7.7 - 168
2,4,5-Trichlorophenol	4,750	ND	3900	82	54 - 103
2,4,6-Trichlorophenol	4,750	ND	3400	72	33 - 119
2,4-Dichlorophenol	4,750	ND	3100	65	42 - 107
2,4-Dinitrophenol	4,750	ND	1100	23	10 - 114
2,4-Dinitrotoluene	4,750	ND	3600	76	29 - 129
2,4-dimethylphenol	4,750	ND	3000	63	35 - 105
2,6-Dichlorophenol	4,750	ND	3000	63	28 - 114
2,6-Dinitrotoluene	4,750	ND	3400	72	57 - 105
2-Chloronaphthalene	4,750	ND	3100	65	45 - 108
2-Chlorophenol	4,750	ND	2800	59	41 - 102
2-Methylnaphthalene	4,750	ND	3000	63	43 - 101
2-Methylphenol	4,750	ND	3000	63	45 - 102
2-Nitroaniline	4,750	ND	3300	70	40 - 142
2-Nitrophenol	4,750	ND	2800	59	48 - 99
3&4-Methylphenol	9,500	ND	6100	64	10 - 154
3,3'-Dichlorobenzidine	4,750	ND	1300	27	10 - 137
3-Methylcholanthrene	4,750	ND	3200	67	25 - 123
3-Nitroaniline	4,750	ND	3100	65	30 - 114
4,6-Dinitro-2-methylphenol	4,750	ND	1100	23	10 - 115
4-Bromophenyl-phenylether	4,750	ND	3300	70	48 - 116
4-Chloro-3-methylphenol	4,750	ND	3300	70	43 - 112
4-Chloroaniline	4,750	ND	2200	46	17 - 94
4-Chlorophenyl-phenylether	4,750	ND	3400	72	52 - 103
4-Nitroaniline	4,750	ND	3000	63	17 - 117
4-Nitrophenol	4,750	ND	3700	78	17 - 141
4-nitroquinoline-1-oxide	4,750	ND	810	17	4.4 - 101
Acenaphthene	4,750	ND	3500	74	53 - 101
Acenaphthylene	4,750	ND	3400	72	56 - 99
Acetophenone	4,750	ND	2800	59	46 - 101
Aniline	4,750	ND	1700	36	10 - 90
Anthracene	4,750	480	3900	72	58 - 108
Aramite	4,750	ND	3600	76	39 - 118
Azobenzene	4,750	ND	3000	63	53 - 117
Benzidine	4,750	ND	ND	ND	10 - 41
Benzo(a)anthracene	4,750	2100	6100	84	50 - 112
Benzo(a)pyrene	4,750	2100	6100	84	34 - 122
Benzo(b)fluoranthene	4,750	2500	7300	101	42 - 120
Benzo(g,h,i)perylene	4,750	980	3400	51	50 - 108

Benzo(k)fluoranthene	4,750	2200	6600	93	33 - 116
Benzoic acid	4,750	ND	920	19	10 - 168
Benzyl alcohol	4,750	ND	2300	48	18 - 131
Bis(2-Chloroethyl)ether	4,750	ND	2700	57	45 - 98
Bis(2-ethylhexyl)phthalate	4,750	ND	3700	78	22 - 151
Butylbenzylphthalate	4,750	ND	3500	74	56 - 120
Carbazole	4,750	390	3800	72	52 - 114
Chlorobenzilate	4,750	ND	3800	80	50 - 129
Chrysene	4,750	2500	6600	86	43 - 111
Di-n-butylphthalate	4,750	ND	3500	74	57 - 125
Di-n-octyl phthalate	4,750	ND	5600	118	39 - 128
Dibenz(a,h)anthracene	4,750	310	2900	55	31 - 129
Dibenzofuran	4,750	ND	3500	74	53 - 100
Diethylphthalate	4,750	ND	3400	72	54 - 106
Dimethyl phthalate	4,750	ND	3400	72	54 - 104
Dinoseb	4,750	ND	1400	30	6.4 - 114
Ethyl methanesulfonate	4,750	ND	2700	57	46 - 100
Fluoranthene	4,750	4600	8700	86	43 - 126
Fluorene	4,750	ND	3600	76	57 - 103
Hexachlorobenzene	4,750	ND	3400	72	46 - 113
Hexachlorobutadiene	4,750	ND	2900	61	44 - 93
Hexachlorocyclopentadiene	4,750	ND	1100	23	10 - 115
Hexachloroethane	4,750	ND	2400	51	36 - 88
Hexachloropropene	4,750	ND	1900	40	10 - 112
Indeno(1,2,3-cd)pyrene	4,750	980	3600	55	29 - 131
Isodrin	4,750	ND	3300	70	6.7 - 141
Isophorone	4,750	ND	2900	61	52 - 108
Isosafrole	4,750	ND	2900	61	49 - 97
Kepone	4,750	ND	800	17	10 - 126
Methyl methanesulfonate	4,750	ND	2600	55	15 - 112
N-Nitrosodiphenylamine	4,750	ND	3200	67	50 - 107
N-nitroso-di-n-propylamine	4,750	ND	2700	57	45 - 108
N-nitrosodimethylamine	4,750	ND	2500	53	34 - 90
Naphthalene	4,750	ND	3100	65	43 - 100
Nitrobenzene	4,750	ND	2800	59	46 - 103
Pentachlorobenzene	4,750	ND	3400	72	50 - 101
Pentachloronitrobenzene	4,750	ND	3300	70	51 - 119
Pentachlorophenol	4,750	ND	6400	135	6.2 - 128
Phenacetin	4,750	ND	3400	72	54 - 124
Phenanthrene	4,750	3000	7500	95	47 - 119
Phenol	4,750	ND	2900	61	48 - 97
Pyrene	4,750	4100	8700	97	49 - 117
Pyridine	4,750	ND	1800	38	14 - 67
Safrole	4,750	ND	3000	63	49 - 103
bis(-2-Chloroethoxy)methane	4,750	ND	2900	61	47 - 102

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32226

PARAMETER	SAMPLE RESULT ug/Kg	SAMPLE DUPLICATE RESULT ug/Kg	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	ND	ND	ND	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	480	472.4	1.6	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	2100	2348.6	11.2	50
Benzo(a)pyrene	2100	2497.7	17.3	50
Benzo(b)fluoranthene	2500	2891.7	14.5	50
Benzo(g,h,i)perylene	980	1267.3	25.6	50
Benzo(k)fluoranthene	2200	2617.6	17.3	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	351.8	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	390	342.9	12.9	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	2500	2845.2	12.9	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	310	396.7	24.5	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	52
Fluoranthene	4600	4929.5	6.9	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	980	1233.7	22.9	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	3000	2767.4	8.1	50
Phenol	ND	ND	ND	50
Pyrene	4100	4559.4	10.6	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	4000	3040	76	41 - 113
1,2,4-Trichlorobenzene	4000	3020	76	39 - 111
1,2-Dichlorobenzene	4000	2860	72	36 - 106
1,3-Dichlorobenzene	4000	2810	70	35 - 103
1,3-Dinitrobenzene	4000	3320	83	26 - 138
1,4-Dichlorobenzene	4000	2830	71	35 - 103
1,4-Naphthoquinone	4000	3320	83	37 - 134
1-Methylnaphthalene	4000	3170	79	41 - 117
2,2'-oxybis(1-chloropropane)	4000	2940	74	30 - 134
2,3,4,6-Tetrachlorophenol	4000	3910	98	16 - 153
2,4,5-Trichlorophenol	4000	3770	94	38 - 122
2,4,6-Trichlorophenol	4000	3270	82	39 - 121
2,4-Dichlorophenol	4000	3260	82	40 - 118
2,4-Dinitrophenol	4000	1950	49	10 - 71
2,4-Dinitrotoluene	4000	3510	88	47 - 127
2,4-dimethylphenol	4000	2540	64	30 - 120
2,6-Dichlorophenol	4000	3150	79	40 - 116
2,6-Dinitrotoluene	4000	3380	85	46 - 128
2-Chloronaphthalene	4000	3100	78	42 - 125
2-Chlorophenol	4000	3070	77	41 - 115
2-Methylnaphthalene	4000	3110	78	35 - 120
2-Methylphenol	4000	3190	80	40 - 119
2-Nitroaniline	4000	3310	83	29 - 163
2-Nitrophenol	4000	3060	77	35 - 115
3&4-Methylphenol	8000	6580	82	3.5 - 149
3,3'-Dichlorobenzidine	4000	3000	75	29 - 114
3-Methylcholanthrene	4000	3270	82	40 - 126
3-Nitroaniline	4000	2920	73	44 - 120
4,6-Dinitro-2-methylphenol	4000	2870	72	10 - 97
4-Bromophenyl-phenylether	4000	3270	82	40 - 133
4-Chloro-3-methylphenol	4000	3460	87	36 - 133
4-Chloroaniline	4000	2560	64	28 - 99
4-Chlorophenyl-phenylether	4000	3290	82	45 - 119
4-Nitroaniline	4000	3120	78	37 - 131
4-Nitrophenol	4000	3290	82	15 - 141
4-nitroquinoline-1-oxide	4000	2750	69	19 - 118
Acenaphthene	4000	3180	80	44 - 119
Acenaphthylene	4000	3210	80	44 - 121
Acetophenone	4000	3140	79	41 - 115
Aniline	4000	2110	53	20 - 99
Anthracene	4000	3270	82	40 - 137
Aramite	4000	3370	84	37 - 118
Azobenzene	4000	3110	78	41 - 141
Benzidine	4000	420	11	2 - 76
Benzo(a)anthracene	4000	3340	84	46 - 128
Benzo(a)pyrene	4000	3340	84	49 - 124
Benzo(b)fluoranthene	4000	3430	86	41 - 135
Benzo(g,h,i)perylene	4000	3300	83	47 - 123
Benzo(k)fluoranthene	4000	3390	85	50 - 114
Benzoic acid	4000	428	11	10 - 122
Benzyl alcohol	4000	3140	79	28 - 129
Bis(2-Chloroethyl)ether	4000	3000	75	40 - 112

Bis(2-ethylhexyl)phthalate	4000	3310	83	38 - 143
Butylbenzylphthalate	4000	3300	83	40 - 143
Carbazole	4000	3360	84	42 - 133
Chlorobenzilate	4000	3520	88	45 - 139
Chrysene	4000	3310	83	47 - 118
Di-n-butylphthalate	4000	3420	86	33 - 183
Di-n-octyl phthalate	4000	3450	86	44 - 125
Dibenz(a,h)anthracene	4000	3310	83	47 - 128
Dibenzofuran	4000	3220	81	44 - 118
Diethylphthalate	4000	3330	83	44 - 132
Dimethyl phthalate	4000	3390	85	46 - 121
Dinoseb	4000	3350	84	10 - 118
Ethyl methanesulfonate	4000	3020	76	41 - 117
Fluoranthene	4000	3390	85	42 - 135
Fluorene	4000	3280	82	47 - 122
Hexachlorobenzene	4000	3300	83	38 - 133
Hexachlorobutadiene	4000	3000	75	40 - 108
Hexachlorocyclopentadiene	4000	2830	71	18 - 130
Hexachloroethane	4000	2760	69	34 - 106
Hexachloropropene	4000	2900	73	31 - 115
Indeno(1,2,3-cd)pyrene	4000	3440	86	46 - 127
Isodrin	4000	3280	82	43 - 137
Isophorone	4000	3120	78	45 - 125
Isosafrole	4000	3100	78	41 - 115
Kepone	4000	1110	28	12 - 101
Methyl methanesulfonate	4000	2960	74	6.3 - 136
N-Nitrosodiphenylamine	4000	3120	78	30 - 148
N-nitroso-di-n-propylamine	4000	2990	75	41 - 122
N-nitrosodimethylamine	4000	2820	71	28 - 107
Naphthalene	4000	3100	78	38 - 118
Nitrobenzene	4000	2980	75	40 - 119
Pentachlorobenzene	4000	3320	83	44 - 116
Pentachloronitrobenzene	4000	3310	83	39 - 139
Pentachlorophenol	4000	5920	148	10 - 117
Phenacetin	4000	3400	85	39 - 146
Phenanthrene	4000	3300	83	39 - 134
Phenol	4000	3140	79	39 - 121
Pyrene	4000	3430	86	45 - 130
Pyridine	4000	2080	52	22 - 77
Safrole	4000	3080	77	45 - 119
bis(-2-Chloroethoxy)methane	4000	3120	78	40 - 119

Comments: recovery of pentachlorophenol is out of spec in the LFB and MS.

There was no recovery for benzidine in the MS.

PN: 12080053

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	~~12060001-0008~~	~~SS-04B~~	~~PCB MS~~	~~SOIL~~	~~8/22/2012~~	~~11:41~~	~~1~~	~~NONE~~	~~N~~
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	**SAMPLES TRANSFERRED FROM** **CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 7 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	**SAMPLES TRANSFERRED FROM** **CHAIN OF CUSTODY #**

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 15 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 18, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.18 11:40:09 -04'00'

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	86%
Dry Weight Extracted:	5.02 grams	Extract Dilution:	1
Wet Weight Extracted:	5.87 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	68	36 - 131
Decachlorobiphenyl	101	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	93%
Dry Weight Extracted:	5.50 grams	Extract Dilution:	1
Wet Weight Extracted:	5.91 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	84	36 - 131
Decachlorobiphenyl	112	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	86%
Dry Weight Extracted:	4.83 grams	Extract Dilution:	1
Wet Weight Extracted:	5.59 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	73	36 - 131
Decachlorobiphenyl	105	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	92%
Dry Weight Extracted:	5.09 grams	Extract Dilution:	1
Wet Weight Extracted:	5.53 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	37	36 - 131
Decachlorobiphenyl	64	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	90%
Dry Weight Extracted:	4.86 grams	Extract Dilution:	1
Wet Weight Extracted:	5.40 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	69	36 - 131
Decachlorobiphenyl	101	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	95%
Dry Weight Extracted:	5.54 grams	Extract Dilution:	1
Wet Weight Extracted:	5.81 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	80	36 - 131
Decachlorobiphenyl	108	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	93%
Dry Weight Extracted:	5.28 grams	Extract Dilution:	1
Wet Weight Extracted:	5.69 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	79	36 - 131
Decachlorobiphenyl	112	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0042	Lab Sample ID:	AB32156
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	83%
Dry Weight Extracted:	4.52 grams	Extract Dilution:	1
Wet Weight Extracted:	5.47 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	85	36 - 131
Decachlorobiphenyl	114	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0043	Lab Sample ID:	AB32157
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	83%
Dry Weight Extracted:	4.72 grams	Extract Dilution:	1
Wet Weight Extracted:	5.68 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	89	36 - 131
Decachlorobiphenyl	110	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0044	Lab Sample ID:	AB32158
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	82%
Dry Weight Extracted:	4.70 grams	Extract Dilution:	1
Wet Weight Extracted:	5.70 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	85	36 - 131
Decachlorobiphenyl	105	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0051	Lab Sample ID:	AB32159
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	88%
Dry Weight Extracted:	4.85 grams	Extract Dilution:	1
Wet Weight Extracted:	5.51 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	16	36 - 131
Decachlorobiphenyl	22	30 - 165

Comments: The surrogate recoveries are below the QC limit. A portion of this sample was spilled during sample preparation.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0052	Lab Sample ID:	AB32160
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	86%
Dry Weight Extracted:	4.87 grams	Extract Dilution:	1
Wet Weight Extracted:	5.65 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	76	36 - 131
Decachlorobiphenyl	108	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0053	Lab Sample ID:	AB32161
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	86%
Dry Weight Extracted:	4.59 grams	Extract Dilution:	1
Wet Weight Extracted:	5.36 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	ND	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	87	36 - 131
Decachlorobiphenyl	113	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Extraction:	8/28/12	Final Volume:	5 mL
Date of Analysis:	9/9/12	Percent Solids:	100%
Dry Weight Extracted:	5.05 grams	Extract Dilution:	1
Wet Weight Extracted:	5.05 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	73	36 - 131
Decachlorobiphenyl	104	30 - 165

Comments:

MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32161

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1254	0.7	ND	0.68	105	70 - 130

Comments:

Sample ID: AB32161

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1254	0.7	0.69	105	0	50

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32161

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	ND	ND	ND	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 4 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christie Ly	8/23/12		8/23/12	4:35						

Printed on 100% Recycled Paper

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinqulshed By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF COSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

August 27, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: PCB's in Soil Field Method (Fixed Lab)
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, FLDPCB2.SOP.

Concentrations of PCBs in soil were calculated using an external standard technique.

Analysis for PCB's performed by this field analytical technique is used for tentative identification and semi-quantitation of PCB's in soil, oil, and sediment samples.

Date Samples Received by the Laboratory: 8/23/12

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340.

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.27 13:47:58 -04'00'

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0010
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.31 grams
Wet Weight Extracted: 1.39 grams

Lab Sample ID: AB32131
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0011
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.24 grams
Wet Weight Extracted: 1.30 grams

Lab Sample ID: AB32132
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0012
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.03 grams
Wet Weight Extracted: 1.20 grams

Lab Sample ID: AB32133
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0013
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 0.96 grams
Wet Weight Extracted: 1.15 grams

Lab Sample ID: AB32134
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/24/12		
Dry Weight Extracted:	0.98 grams		
Wet Weight Extracted:	1.16 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Client Sample ID:	12060001-0015	Lab Sample ID:	AB32136
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/24/12		
Dry Weight Extracted:	0.97 grams		
Wet Weight Extracted:	1.16 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0016
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 0.92 grams
Wet Weight Extracted: 1.05 grams

Lab Sample ID: AB32137
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.22	
12672-29-6	Aroclor-1248	ND	0.22	
11097-69-1	Aroclor-1254	ND	0.22	
11096-82-5	Aroclor-1260	ND	0.22	
11100-14-4	Aroclor-1262	ND	0.22	
37324-23-5	Aroclor-1268	ND	0.22	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0018
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.24 grams
Wet Weight Extracted: 1.34 grams

Lab Sample ID: AB32139
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/24/12		
Dry Weight Extracted:	1.18 grams		
Wet Weight Extracted:	1.31 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/24/12		
Dry Weight Extracted:	1.16 grams		
Wet Weight Extracted:	1.27 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.18	
12672-29-6	Aroclor-1248	ND	0.18	
11097-69-1	Aroclor-1254	ND	0.18	
11096-82-5	Aroclor-1260	ND	0.18	
11100-14-4	Aroclor-1262	ND	0.18	
37324-23-5	Aroclor-1268	ND	0.18	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0021
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.01 grams
Wet Weight Extracted: 1.28 grams

Lab Sample ID: AB32142
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0023
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 0.97 grams
Wet Weight Extracted: 1.15 grams

Lab Sample ID: AB32144
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0024
Date of Collection: 8/22/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 0.98 grams
Wet Weight Extracted: 1.21 grams

Lab Sample ID: AB32145
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0032
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/24/12
Dry Weight Extracted: 1.04 grams
Wet Weight Extracted: 1.28 grams

Lab Sample ID: AB32149
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.20	
12672-29-6	Aroclor-1248	ND	0.20	
11097-69-1	Aroclor-1254	ND	0.20	
11096-82-5	Aroclor-1260	ND	0.20	
11100-14-4	Aroclor-1262	ND	0.20	
37324-23-5	Aroclor-1268	ND	0.20	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID:	12060001-0034	Lab Sample ID:	AB32151
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/24/12		
Dry Weight Extracted:	0.86 grams		
Wet Weight Extracted:	1.04 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.24	
12672-29-6	Aroclor-1248	ND	0.24	
11097-69-1	Aroclor-1254	ND	0.24	
11096-82-5	Aroclor-1260	ND	0.24	
11100-14-4	Aroclor-1262	ND	0.24	
37324-23-5	Aroclor-1268	ND	0.24	

Comments:

12080053$FLFPCB

Client Sample ID:	12060001-0035	Lab Sample ID:	AB32152
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	8/24/12	Final Volume	2 mL
Date of Analysis:	8/25/12		
Dry Weight Extracted:	1.13 grams		
Wet Weight Extracted:	1.36 grams		

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.18	
12672-29-6	Aroclor-1248	ND	0.18	
11097-69-1	Aroclor-1254	ND	0.18	
11096-82-5	Aroclor-1260	ND	0.18	
11100-14-4	Aroclor-1262	ND	0.18	
37324-23-5	Aroclor-1268	ND	0.18	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0060
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 1.20 grams
Wet Weight Extracted: 1.32 grams

Lab Sample ID: AB32162
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	**6.2**	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0061
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 0.95 grams
Wet Weight Extracted: 1.05 grams

Lab Sample ID: AB32163
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.22	
12672-29-6	Aroclor-1248	ND	0.22	
11097-69-1	Aroclor-1254	**0.39**	0.22	
11096-82-5	Aroclor-1260	ND	0.22	
11100-14-4	Aroclor-1262	ND	0.22	
37324-23-5	Aroclor-1268	ND	0.22	

Comments:

12080053$FLFPCB

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0062
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 1.05 grams
Wet Weight Extracted: 1.18 grams

Lab Sample ID: AB32164
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.18	
12672-29-6	Aroclor-1248	ND	0.18	
11097-69-1	Aroclor-1254	ND	0.18	
11096-82-5	Aroclor-1260	ND	0.18	
11100-14-4	Aroclor-1262	ND	0.18	
37324-23-5	Aroclor-1268	ND	0.18	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0069
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 1.23 grams
Wet Weight Extracted: 1.32 grams

Lab Sample ID: AB32171
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Kiley Barrel Allen St - Somerville, MA

PCB's in Soil Field Method (Fixed Lab)

Client Sample ID: 12060001-0070
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 1.20 grams
Wet Weight Extracted: 1.32 grams

Lab Sample ID: AB32172
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	**1.20**	0.16	
12672-29-6	Aroclor-1248	ND	0.16	
11097-69-1	Aroclor-1254	ND	0.16	
11096-82-5	Aroclor-1260	ND	0.16	
11100-14-4	Aroclor-1262	ND	0.16	
37324-23-5	Aroclor-1268	ND	0.16	

Comments:

12080053$FLFPCB

Client Sample ID: 12060001-0071
Date of Collection: 8/21/2012
Date of Extraction: 8/24/12
Date of Analysis: 8/25/12
Dry Weight Extracted: 1.09 grams
Wet Weight Extracted: 1.19 grams

Lab Sample ID: AB32173
Matrix Soil
Final Volume 2 mL

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
53469-21-9	Aroclor-1242	ND	0.18	
12672-29-6	Aroclor-1248	ND	0.18	
11097-69-1	Aroclor-1254	ND	0.18	
11096-82-5	Aroclor-1260	ND	0.18	
11100-14-4	Aroclor-1262	ND	0.18	
37324-23-5	Aroclor-1268	ND	0.18	

Comments:

12080053$FLFPCB

PN: 12080053

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

	Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓		12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
		12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
		12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
		12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
		12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
		12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓		12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
		12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
		12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
		12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
		12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓		12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
		12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
		12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
		12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
		12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
		12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
		12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
		12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

October 02, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080054
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: PCBs Medium Level in Soils and Sediments
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, PESTSOIL3.SOP.

The SOP is based on EPA SW-846 Method 8082

The analysis was performed using high resolution capillary column chromatography on an Agilent 6890 Series gas chromatograph equipped with dual electron capture detectors. The 30 meter dual capillary column system consists of a J&W DB-5 and J&W DB-1701, both with 0.25mm ID and 0.25 micron film thickness.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.10.02 09:03:14 -04'00'

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0072	Lab Sample ID:	AB32206
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	89%
Dry Weight Extracted:	4.82 grams	Extract Dilution:	1
Wet Weight Extracted:	5.43 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	**0.16**	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	75	36 - 131
Decachlorobiphenyl	110	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0073	Lab Sample ID:	AB32207
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/19/12	Percent Solids:	92%
Dry Weight Extracted:	4.91 grams	Extract Dilution:	1
Wet Weight Extracted:	5.36 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	78	36 - 131
Decachlorobiphenyl	99	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0074	Lab Sample ID:	AB32208
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/19/12	Percent Solids:	87%
Dry Weight Extracted:	5.04 grams	Extract Dilution:	1
Wet Weight Extracted:	5.78 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	78	36 - 131
Decachlorobiphenyl	102	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0078	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/19/12	Percent Solids:	86%
Dry Weight Extracted:	4.94 grams	Extract Dilution:	1
Wet Weight Extracted:	5.74 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	97	36 - 131
Decachlorobiphenyl	111	30 - 165

Comments:

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0079	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/19/12	Percent Solids:	88%
Dry Weight Extracted:	5.45 grams	Extract Dilution:	1
Wet Weight Extracted:	6.18 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	ND	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	91	36 - 131
Decachlorobiphenyl	108	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0080		Lab Sample ID:	AB32211
Date of Collection:	8/22/2012		Matrix	Soil
Date of Extraction:	9/2/12		Final Volume:	5 mL
Date of Analysis:	9/19/12		Percent Solids:	77%
Dry Weight Extracted:	4.75 grams		Extract Dilution:	50
Wet Weight Extracted:	6.20 grams		pH:	N/A
Volume Extracted:	N/A		GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	5.3	
11104-28-2	Aroclor-1221	ND	5.3	
11141-16-5	Aroclor-1232	ND	5.3	
53469-21-9	Aroclor-1242	ND	5.3	
12672-29-6	Aroclor-1248	ND	5.3	
11097-69-1	Aroclor-1254	**19**	5.3	
11096-82-5	Aroclor-1260	ND	5.3	
11100-14-4	Aroclor-1262	ND	5.3	
37324-23-5	Aroclor-1268	ND	5.3	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	84	36 - 131
Decachlorobiphenyl	105	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32212
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/19/12	Percent Solids:	69%
Dry Weight Extracted:	4.21 grams	Extract Dilution:	1
Wet Weight Extracted:	6.10 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	79	36 - 131
Decachlorobiphenyl	87	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32213
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	80%
Dry Weight Extracted:	4.46 grams	Extract Dilution:	1
Wet Weight Extracted:	5.58 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.11	
11104-28-2	Aroclor-1221	ND	0.11	
11141-16-5	Aroclor-1232	ND	0.11	
53469-21-9	Aroclor-1242	ND	0.11	
12672-29-6	Aroclor-1248	ND	0.11	
11097-69-1	Aroclor-1254	ND	0.11	
11096-82-5	Aroclor-1260	**0.33**	0.11	
11100-14-4	Aroclor-1262	ND	0.11	
37324-23-5	Aroclor-1268	ND	0.11	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	83	36 - 131
Decachlorobiphenyl	105	30 - 165

Comments:

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32214
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	82%
Dry Weight Extracted:	4.97 grams	Extract Dilution:	1
Wet Weight Extracted:	6.07 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	53	36 - 131
Decachlorobiphenyl	75	30 - 165

Comments:

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32215
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	73%
Dry Weight Extracted:	4.23 grams	Extract Dilution:	1
Wet Weight Extracted:	5.78 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.12	
11104-28-2	Aroclor-1221	ND	0.12	
11141-16-5	Aroclor-1232	ND	0.12	
53469-21-9	Aroclor-1242	ND	0.12	
12672-29-6	Aroclor-1248	ND	0.12	
11097-69-1	Aroclor-1254	ND	0.12	
11096-82-5	Aroclor-1260	ND	0.12	
11100-14-4	Aroclor-1262	ND	0.12	
37324-23-5	Aroclor-1268	ND	0.12	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	80	36 - 131
Decachlorobiphenyl	103	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32216
Date of Collection:	8/21/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	84%
Dry Weight Extracted:	5.27 grams	Extract Dilution:	1
Wet Weight Extracted:	6.28 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	**0.18**	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	77	36 - 131
Decachlorobiphenyl	141	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32217
Date of Collection:	8/22/2012	Matrix	Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	78%
Dry Weight Extracted:	4.38 grams	Extract Dilution:	10
Wet Weight Extracted:	5.65 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	1.1	
11104-28-2	Aroclor-1221	ND	1.1	
11141-16-5	Aroclor-1232	ND	1.1	
53469-21-9	Aroclor-1242	ND	1.1	
12672-29-6	Aroclor-1248	ND	1.1	
11097-69-1	Aroclor-1254	**1.6**	1.1	
11096-82-5	Aroclor-1260	ND	1.1	
11100-14-4	Aroclor-1262	ND	1.1	
37324-23-5	Aroclor-1268	ND	1.1	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	80	36 - 131
Decachlorobiphenyl	80	30 - 165

Comments:

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0096	Lab Sample ID:	AB32218
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	100%
Dry Weight Extracted:	5.23 grams	Extract Dilution:	1
Wet Weight Extracted:	5.23 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	**0.17**	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	70	36 - 131
Decachlorobiphenyl	83	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0097	Lab Sample ID:	AB32219
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	100%
Dry Weight Extracted:	5.52 grams	Extract Dilution:	1
Wet Weight Extracted:	5.52 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.09	
11104-28-2	Aroclor-1221	ND	0.09	
11141-16-5	Aroclor-1232	ND	0.09	
53469-21-9	Aroclor-1242	ND	0.09	
12672-29-6	Aroclor-1248	ND	0.09	
11097-69-1	Aroclor-1254	ND	0.09	
11096-82-5	Aroclor-1260	**0.30**	0.09	
11100-14-4	Aroclor-1262	ND	0.09	
37324-23-5	Aroclor-1268	ND	0.09	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	84	36 - 131
Decachlorobiphenyl	94	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs Medium Level in Soils and Sediments

Client Sample ID:	12060001-0098	Lab Sample ID:	AB32220
Date of Collection:	8/22/2012	Matrix	PE-Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/25/12	Percent Solids:	100%
Dry Weight Extracted:	5.20 grams	Extract Dilution:	1
Wet Weight Extracted:	5.20 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	**0.24**	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	91	36 - 131
Decachlorobiphenyl	104	30 - 165

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	PE-Soil
Date of Extraction:	9/2/12	Final Volume:	5 mL
Date of Analysis:	9/20/12	Percent Solids:	100%
Dry Weight Extracted:	5.01 grams	Extract Dilution:	1
Wet Weight Extracted:	5.01 grams	pH:	N/A
Volume Extracted:	N/A	GPC Factor:	N/A

CAS Number	Compound	Concentration mg/Kg	RL mg/Kg	Qualifier
12674-11-2	Aroclor-1016	ND	0.10	
11104-28-2	Aroclor-1221	ND	0.10	
11141-16-5	Aroclor-1232	ND	0.10	
53469-21-9	Aroclor-1242	ND	0.10	
12672-29-6	Aroclor-1248	ND	0.10	
11097-69-1	Aroclor-1254	ND	0.10	
11096-82-5	Aroclor-1260	ND	0.10	
11100-14-4	Aroclor-1262	ND	0.10	
37324-23-5	Aroclor-1268	ND	0.10	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	83	36 - 131
Decachlorobiphenyl	114	30 - 165

Comments:

MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32217

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Aroclor-1254	0.7	1.6	2.1	68	34 - 152

Comments:

Sample ID: AB32217

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION mg/Kg	MSD % REC	RPD %	QC LIMITS RPD
Aroclor-1254	0.8	1.6		NC	50

Comments: NC - Not calculated due to analytical variability.

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32217

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND	ND	50
Aroclor-1221	ND	ND	ND	50
Aroclor-1232	ND	ND	ND	50
Aroclor-1242	ND	ND	ND	50
Aroclor-1248	ND	ND	ND	50
Aroclor-1254	1.6	1.1	37	50
Aroclor-1260	ND	ND	ND	50
Aroclor-1262	ND	ND	ND	50
Aroclor-1268	ND	ND	ND	50

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	~~12060001-0046~~	~~SS-17B~~	~~METALS ICP~~	~~SOIL~~	~~8/21/2012~~	~~11:23~~	~~1~~	~~NONE~~	~~N~~
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christa	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 11 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample-Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinqulshed By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	~~12060001-0084~~	~~SS-31C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~10:02~~	~~1~~	~~NONE~~	~~N~~
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 20, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: Metals by XRF
EPA Chemist: Janet Paquin

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were analyzed following the EPA Region I SOP, EIASOP-INGXRF0.

Samples were screened using a PANaniltical Epsilon 5 energy dispersive x-ray fluorescence (XRF) spectrometer. The spectrometer is a high resolution energy dispersive x-ray fluorescence spectrometer. It uses both direct and secondary targets to qualitatively and quantitatively analyze elements.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.20 16:04:17 -04'00'

Laboratory Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J1	Estimated value due to MS recovery outside accceptance criteria
J2	Estimated value due to LFB result outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to LCS result outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

A solid standard reference material containing selenium was not available.

All samples were dried at 60 degrees Celsius for 44.5 hours and then sieved through a number 10 standard (2.0 mm) sieve prior to analysis.

The report contains results for the eight RCRA metals. Other metals are present in the samples that are not included on the report.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0001	Lab Sample ID:	AB32122
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0010	Lab Sample ID:	AB32131
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**230**	10	
7440-39-3	Barium	**940**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**290**	40	
7439-92-1	Lead	**2870**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0011	Lab Sample ID:	AB32132
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**71**	10	
7440-39-3	Barium	**420**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**130**	40	
7439-92-1	Lead	**560**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0012	Lab Sample ID:	AB32133
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**740**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**92**	40	
7439-92-1	Lead	**2990**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0013	Lab Sample ID:	AB32134
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**92**	10	
7440-39-3	Barium	**690**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**210**	40	
7439-92-1	Lead	**1720**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0014	Lab Sample ID:	AB32135
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**74**	10	
7440-39-3	Barium	**770**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**210**	40	
7439-92-1	Lead	**1680**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID: 12060001-0015

Lab Sample ID: AB32136

Date of Collection: 8/22/2012

Matrix Soil

Date of Analysis: 9/10/2012

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**320**	10	
7440-39-3	Barium	**1120**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**160**	40	
7439-92-1	Lead	**700**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0016	Lab Sample ID:	AB32137
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**420**	10	
7440-39-3	Barium	**470**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**68**	40	
7439-92-1	Lead	**160**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0017	Lab Sample ID:	AB32138
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/10/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**560**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**44**	40	
7439-92-1	Lead	**2390**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0021	Lab Sample ID:	AB32142
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**84**	10	
7440-39-3	Barium	**660**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**100**	40	
7439-92-1	Lead	**1410**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0022	Lab Sample ID:	AB32143
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**64**	10	
7440-39-3	Barium	**640**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**78**	40	
7439-92-1	Lead	**1240**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0023	Lab Sample ID:	AB32144
Date of Collection:	8/22/2012	Matrix	Soil

Date of Analysis: 9/11/2012

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**110**	10	
7440-39-3	Barium	**620**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**87**	40	
7439-92-1	Lead	**960**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0024	Lab Sample ID:	AB32145
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	**51**	10	
7440-39-3	Barium	**550**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**140**	40	
7439-92-1	Lead	**540**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0025	Lab Sample ID:	AB32146
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**600**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**62**	40	
7439-92-1	Lead	**1890**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0031	Lab Sample ID:	AB32148
Date of Collection:	8/22/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**600**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**75**	40	
7439-92-1	Lead	**1310**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0060	Lab Sample ID:	AB32162
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**490**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**59**	40	
7439-92-1	Lead	**750**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0061	Lab Sample ID:	AB32163
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**1020**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**69**	40	
7439-92-1	Lead	**1580**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0062	Lab Sample ID:	AB32164
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**580**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**64**	40	
7439-92-1	Lead	**940**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0063	Lab Sample ID:	AB32165
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**440**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**43**	40	
7439-92-1	Lead	**520**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0064	Lab Sample ID:	AB32166
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**490**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**52**	40	
7439-92-1	Lead	**550**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0065	Lab Sample ID:	AB32167
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**360**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	**130**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0066	Lab Sample ID:	AB32168
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**260**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	**110**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0067	Lab Sample ID:	AB32169
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**400**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**55**	40	
7439-92-1	Lead	**610**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0068	Lab Sample ID:	AB32170
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**440**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**48**	40	
7439-92-1	Lead	**580**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0069	Lab Sample ID:	AB32171
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	**Parameter**	**Concentration mg/Kg**	**RL mg/Kg**	**Qualifier**
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**370**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**48**	40	
7439-92-1	Lead	**440**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0070	Lab Sample ID:	AB32172
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**560**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**56**	40	
7439-92-1	Lead	**930**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0071	Lab Sample ID:	AB32173
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**2020**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**62**	40	
7439-92-1	Lead	**4630**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0072	Lab Sample ID:	AB32174
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**460**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**49**	40	
7439-92-1	Lead	**760**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0073	Lab Sample ID:	AB32175
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**520**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**47**	40	
7439-92-1	Lead	**720**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0074	Lab Sample ID:	AB32176
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**610**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**52**	40	
7439-92-1	Lead	**1040**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID: 12060001-0075

Date of Collection: 8/21/2012

Lab Sample ID: AB32177

Matrix Soil

Date of Analysis: 9/11/2012

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**370**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	**530**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0076	Lab Sample ID:	AB32178
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/11/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**400**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	ND	40	
7439-92-1	Lead	**530**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals by XRF

Client Sample ID:	12060001-0077	Lab Sample ID:	AB32179
Date of Collection:	8/21/2012	Matrix	Soil
Date of Analysis:	9/12/2012		

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7440-38-2	Arsenic	ND	10	
7440-39-3	Barium	**460**	50	
7440-43-9	Cadmium	ND	10	
7440-47-3	Chromium	**44**	40	
7439-92-1	Lead	**720**	5	
7439-97-6	Mercury	ND	20	
7782-49-2	Selenium	ND	10	
7440-22-4	Silver	ND	10	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

COMPOUND	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Sample ID: AB32131				
Arsenic	230	210	9	35
Barium	940	930	1	35
Cadmium	ND	ND	NC	35
Chromium	290	270	7	35
Lead	2870	2850	1	35
Mercury	ND	ND	NC	35
Selenium	ND	ND	NC	35
Silver	ND	ND	NC	35
Sample ID: AB32162				
Arsenic	ND	ND	NC	35
Barium	490	480	2	35
Cadmium	ND	ND	NC	35
Chromium	59	62	5	35
Lead	750	840	11	35
Mercury	ND	ND	NC	35
Selenium	ND	ND	NC	35
Silver	ND	ND	NC	35
Sample ID: AB32179				
Arsenic	ND	ND	NC	35
Barium	460	410	11	35
Cadmium	ND	ND	NC	35
Chromium	44	45	2	35
Lead	720	790	9	35
Mercury	ND	ND	NC	35
Selenium	ND	ND	NC	35
Silver	ND	ND	NC	35

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

XRF QC REPORT

Kiley Barrel Allen St - Somerville, MA

Standard Reference Material 2709

COMPOUND	MEASURED CONCENTRATION mg/Kg	CERTIFIED VALUE mg/Kg	QC LIMITS mg/Kg
Run Date: 09/10/2012			
Arsenic	18	18	13 - 23
Barium	750	970	680 - 1260
Chromium	95	130	91 - 170
Lead	18	19	13 - 25
Run Date: 09/11/2012			
Arsenic	17	18	13 - 23
Barium	750	970	680 - 1260
Chromium	93	130	91 - 170
Lead	20	19	13 - 25
Run Date: 09/12/2012			
Arsenic	18	18	13 - 23
Barium	750	970	680 - 1260
Chromium	98	130	91 - 170
Lead	19	19	13 - 25

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

XRF QC REPORT

Kiley Barrel Allen St - Somerville, MA

Standard Reference Material 2710

COMPOUND	MEASURED CONCENTRATION mg/Kg	CERTIFIED VALUE mg/Kg	QC LIMITS mg/Kg
Run Date: 09/11/2012			
Arsenic	560	630	440 - 820
Barium	740	710	497 - 920
Cadmium	18	22	15 - 29
Lead	4580	5530	3870 - 7190
Mercury	30	33	23 - 43
Silver	30	35	25 - 46
Run Date: 09/11/2012			
Arsenic	550	630	440 - 820
Barium	730	710	497 - 920
Cadmium	19	22	15 - 29
Lead	4650	5530	3870 - 7190
Mercury	34	33	23 - 43
Silver	33	35	25 - 46
Run Date: 09/12/2012			
Arsenic	600	630	440 - 820
Barium	740	710	497 - 920
Cadmium	18	22	15 - 29
Lead	4920	5530	3870 - 7190
Mercury	32	33	23 - 43
Silver	32	35	25 - 46

Comments:

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time		Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35							

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterlno at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	~~12060001-0046~~	~~SS-17B~~	~~METALS ICP~~	~~SOIL~~	~~8/21/2012~~	~~11:23~~	~~1~~	~~NONE~~	~~N~~
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 20, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: Metals in Soil Medium Level by ICP
EPA Chemist: Janet Paquin

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were analyzed following the EPA Region I SOP, EIASOP-INGDVICP1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP7

Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively. Samples were analyzed using a Perkin Elmer 4300 Dual View Inductively Coupled Plasma - Optical Emission Spectrometer.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.20 16:50:46 -04'00'

Laboratory Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J1	Estimated value due to MS recovery outside accceptance criteria
J2	Estimated value due to LFB result outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to LCS result outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

Sample results are reported in mg/Kg, dry weight basis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0003	Lab Sample ID:	AB32124
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9200**	11	
7440-36-0	Antimony	**2.2**	2.0	J1
7440-38-2	Arsenic	**47**	2.0	
7440-39-3	Barium	**670**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.6**	1.0	
7440-70-2	Calcium	**5800**	10	
7440-47-3	Chromium	**47**	2.0	
7440-48-4	Cobalt	**8.3**	2.0	
7440-50-8	Copper	**210**	2.0	J1
7439-89-6	Iron	**24000**	4.0	
7439-92-1	Lead	**2600**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**350**	2.0	
7440-02-0	Nickel	**38**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**48**	2.0	
7440-66-6	Zinc	**890**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0004	Lab Sample ID:	AB32125
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**8100**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**23**	2.0	
7440-39-3	Barium	**200**	2.0	
7440-41-7	Beryllium	ND	0.78	
7440-43-9	Cadmium	ND	0.98	
7440-70-2	Calcium	**3000**	9.8	
7440-47-3	Chromium	**19**	2.0	
7440-48-4	Cobalt	**6.5**	2.0	
7440-50-8	Copper	**74**	2.0	
7439-89-6	Iron	**16000**	3.9	
7439-92-1	Lead	**570**	2.0	
7439-95-4	Magnesium	**2700**	9.8	
7439-96-5	Manganese	**300**	2.0	
7440-02-0	Nickel	**17**	2.0	
7782-49-2	Selenium	ND	3.9	J2
7440-22-4	Silver	ND	0.98	
7440-28-0	Thallium	ND	3.9	
7440-62-2	Vanadium	**27**	2.0	
7440-66-6	Zinc	**420**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0005	Lab Sample ID:	AB32126
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9100**	11	
7440-36-0	Antimony	**2.2**	2.0	
7440-38-2	Arsenic	**70**	2.0	
7440-39-3	Barium	**920**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.9**	1.0	
7440-70-2	Calcium	**5600**	10	
7440-47-3	Chromium	**49**	2.0	
7440-48-4	Cobalt	**7.4**	2.0	
7440-50-8	Copper	**150**	2.0	
7439-89-6	Iron	**22000**	4.0	
7439-92-1	Lead	**3700**	2.0	
7439-95-4	Magnesium	**2300**	10	
7439-96-5	Manganese	**290**	2.0	
7440-02-0	Nickel	**26**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**45**	2.0	
7440-66-6	Zinc	**970**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0006	Lab Sample ID:	AB32127
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**8900**	11	
7440-36-0	Antimony	**3.2**	2.0	
7440-38-2	Arsenic	**74**	2.0	
7440-39-3	Barium	**950**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**3.0**	1.0	
7440-70-2	Calcium	**5400**	10	
7440-47-3	Chromium	**52**	2.0	
7440-48-4	Cobalt	**7.4**	2.0	
7440-50-8	Copper	**150**	2.0	
7439-89-6	Iron	**22000**	4.0	
7439-92-1	Lead	**3600**	2.0	
7439-95-4	Magnesium	**2100**	10	
7439-96-5	Manganese	**290**	2.0	
7440-02-0	Nickel	**26**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**42**	2.0	
7440-66-6	Zinc	**1000**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0007	Lab Sample ID:	AB32128
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9000**	11	
7440-36-0	Antimony	**2.5**	2.0	
7440-38-2	Arsenic	**79**	2.0	
7440-39-3	Barium	**980**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**3.0**	1.0	
7440-70-2	Calcium	**5300**	10	
7440-47-3	Chromium	**50**	2.0	
7440-48-4	Cobalt	**7.7**	2.0	
7440-50-8	Copper	**160**	2.0	
7439-89-6	Iron	**23000**	4.1	
7439-92-1	Lead	**4200**	2.0	
7439-95-4	Magnesium	**2200**	10	
7439-96-5	Manganese	**330**	2.0	
7440-02-0	Nickel	**27**	2.0	
7782-49-2	Selenium	ND	4.1	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**44**	2.0	
7440-66-6	Zinc	**1000**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0008	Lab Sample ID:	AB32129
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9300**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**52**	2.0	
7440-39-3	Barium	**280**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**3000**	10	
7440-47-3	Chromium	**73**	2.0	
7440-48-4	Cobalt	**9.3**	2.0	
7440-50-8	Copper	**70**	2.0	
7439-89-6	Iron	**21000**	4.0	
7439-92-1	Lead	**980**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**360**	2.0	
7440-02-0	Nickel	**16**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**28**	2.0	
7440-66-6	Zinc	**570**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0009	Lab Sample ID:	AB32130
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**8300**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**11**	2.0	
7440-39-3	Barium	**180**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**3400**	10	
7440-47-3	Chromium	**21**	2.0	
7440-48-4	Cobalt	**8.0**	2.0	
7440-50-8	Copper	**190**	2.0	
7439-89-6	Iron	**15000**	4.0	
7439-92-1	Lead	**770**	2.0	
7439-95-4	Magnesium	**2000**	10	
7439-96-5	Manganese	**350**	2.0	
7440-02-0	Nickel	**15**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**26**	2.0	
7440-66-6	Zinc	**270**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0018	Lab Sample ID:	AB32139
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**7800**	11	
7440-36-0	Antimony	**2.7**	2.0	
7440-38-2	Arsenic	**140**	2.0	
7440-39-3	Barium	**1000**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.7**	1.0	
7440-70-2	Calcium	**8400**	10	
7440-47-3	Chromium	**57**	2.0	
7440-48-4	Cobalt	**6.4**	2.0	
7440-50-8	Copper	**150**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**2100**	2.0	
7439-95-4	Magnesium	**2500**	10	
7439-96-5	Manganese	**310**	2.0	
7440-02-0	Nickel	**25**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**43**	2.0	
7440-66-6	Zinc	**860**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0019	Lab Sample ID:	AB32140
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**10000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**63**	2.0	
7440-39-3	Barium	**200**	2.0	
7440-41-7	Beryllium	ND	0.78	
7440-43-9	Cadmium	ND	0.98	
7440-70-2	Calcium	**16000**	9.8	
7440-47-3	Chromium	**19**	2.0	
7440-48-4	Cobalt	**7.3**	2.0	
7440-50-8	Copper	**49**	2.0	
7439-89-6	Iron	**17000**	3.9	
7439-92-1	Lead	**190**	2.0	
7439-95-4	Magnesium	**3600**	9.8	
7439-96-5	Manganese	**280**	2.0	
7440-02-0	Nickel	**15**	2.0	
7782-49-2	Selenium	ND	3.9	J2
7440-22-4	Silver	ND	0.98	
7440-28-0	Thallium	ND	3.9	
7440-62-2	Vanadium	**26**	2.0	
7440-66-6	Zinc	**790**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0020	Lab Sample ID:	AB32141
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**12000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**27**	2.0	
7440-39-3	Barium	**120**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**5200**	10	
7440-47-3	Chromium	**17**	2.0	
7440-48-4	Cobalt	**10**	2.0	
7440-50-8	Copper	**160**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**320**	2.0	
7439-95-4	Magnesium	**3200**	10	
7439-96-5	Manganese	**450**	2.0	
7440-02-0	Nickel	**15**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**31**	2.0	
7440-66-6	Zinc	**150**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0032	Lab Sample ID:	AB32149
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9300**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**26**	2.0	
7440-39-3	Barium	**370**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.0**	1.0	
7440-70-2	Calcium	**9700**	10	
7440-47-3	Chromium	**30**	2.0	
7440-48-4	Cobalt	**6.7**	2.0	
7440-50-8	Copper	**97**	2.0	
7439-89-6	Iron	**18000**	4.0	
7439-92-1	Lead	**1500**	2.0	
7439-95-4	Magnesium	**2500**	10	
7439-96-5	Manganese	**290**	2.0	
7440-02-0	Nickel	**17**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**38**	2.0	
7440-66-6	Zinc	**760**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0033	Lab Sample ID:	AB32150
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9800**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**11**	2.0	
7440-39-3	Barium	**180**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**7100**	10	
7440-47-3	Chromium	**22**	2.0	
7440-48-4	Cobalt	**5.1**	2.0	
7440-50-8	Copper	**69**	2.0	
7439-89-6	Iron	**15000**	4.0	
7439-92-1	Lead	**870**	2.0	
7439-95-4	Magnesium	**2400**	10	
7439-96-5	Manganese	**210**	2.0	
7440-02-0	Nickel	**12**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**31**	2.0	
7440-66-6	Zinc	**320**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0034	Lab Sample ID:	AB32151
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	**4.5**	2.0	
7440-38-2	Arsenic	**41**	2.0	
7440-39-3	Barium	**600**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.8**	1.0	
7440-70-2	Calcium	**5900**	10	
7440-47-3	Chromium	**37**	2.0	
7440-48-4	Cobalt	**7.7**	2.0	
7440-50-8	Copper	**140**	2.0	
7439-89-6	Iron	**23000**	4.0	
7439-92-1	Lead	**3900**	2.0	
7439-95-4	Magnesium	**2800**	10	
7439-96-5	Manganese	**380**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**39**	2.0	
7440-66-6	Zinc	**970**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0035	Lab Sample ID:	AB32152
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	**4.3**	2.0	
7440-38-2	Arsenic	**38**	2.0	
7440-39-3	Barium	**620**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**4700**	10	
7440-47-3	Chromium	**33**	2.0	
7440-48-4	Cobalt	**7.4**	2.0	
7440-50-8	Copper	**120**	2.0	
7439-89-6	Iron	**23000**	4.0	
7439-92-1	Lead	**1400**	2.0	
7439-95-4	Magnesium	**2900**	10	
7439-96-5	Manganese	**320**	2.0	
7440-02-0	Nickel	**16**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**35**	2.0	
7440-66-6	Zinc	**590**	2.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0036	Lab Sample ID:	AB32153
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9800**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**16**	2.0	
7440-39-3	Barium	**280**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.6**	1.0	
7440-70-2	Calcium	**5100**	10	
7440-47-3	Chromium	**29**	2.0	
7440-48-4	Cobalt	**6.7**	2.0	
7440-50-8	Copper	**100**	2.0	
7439-89-6	Iron	**18000**	4.0	
7439-92-1	Lead	**1300**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**300**	2.0	
7440-02-0	Nickel	**20**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**48**	2.0	
7440-66-6	Zinc	**550**	4.0	

Comments: Thallium and zinc reported from the analysis of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0037	Lab Sample ID:	AB32154
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**15**	2.0	
7440-39-3	Barium	**370**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.3**	1.0	
7440-70-2	Calcium	**3700**	10	
7440-47-3	Chromium	**26**	2.0	
7440-48-4	Cobalt	**8.8**	2.0	
7440-50-8	Copper	**99**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**1500**	2.0	
7439-95-4	Magnesium	**3000**	10	
7439-96-5	Manganese	**380**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**36**	2.0	
7440-66-6	Zinc	**650**	4.0	

Comments: Thallium and zinc reported from the analysis of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0038	Lab Sample ID:	AB32155
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**13000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**8.2**	2.0	
7440-39-3	Barium	**150**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**3100**	10	
7440-47-3	Chromium	**21**	2.0	
7440-48-4	Cobalt	**7.9**	2.0	
7440-50-8	Copper	**49**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**3700**	2.0	
7439-95-4	Magnesium	**3600**	10	
7439-96-5	Manganese	**320**	2.0	
7440-02-0	Nickel	**14**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**33**	2.0	
7440-66-6	Zinc	**430**	4.0	

Comments: Thallium and zinc reported from the analysis of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0042	Lab Sample ID:	AB32156
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**10000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**31**	2.0	
7440-39-3	Barium	**620**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.3**	1.0	
7440-70-2	Calcium	**12000**	10	
7440-47-3	Chromium	**37**	2.0	
7440-48-4	Cobalt	**7.3**	2.0	
7440-50-8	Copper	**110**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**2400**	2.0	
7439-95-4	Magnesium	**3200**	10	
7439-96-5	Manganese	**330**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**42**	2.0	
7440-66-6	Zinc	**1700**	4.0	

Comments: Thallium and zinc reported from the analysis of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0043	Lab Sample ID:	AB32157
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	2
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**12000**	22	
7440-36-0	Antimony	ND	4.0	
7440-38-2	Arsenic	**63**	4.0	
7440-39-3	Barium	**1100**	4.0	
7440-41-7	Beryllium	ND	1.6	
7440-43-9	Cadmium	**4.2**	2.0	
7440-70-2	Calcium	**6300**	20	
7440-47-3	Chromium	**45**	4.0	
7440-48-4	Cobalt	**9.3**	4.0	
7440-50-8	Copper	**130**	4.0	
7439-89-6	Iron	**24000**	8.0	
7439-92-1	Lead	**5700**	4.0	
7439-95-4	Magnesium	**3300**	20	
7439-96-5	Manganese	**440**	4.0	
7440-02-0	Nickel	**17**	4.0	
7782-49-2	Selenium	ND	8.0	J2
7440-22-4	Silver	ND	2.0	
7440-28-0	Thallium	ND	8.0	
7440-62-2	Vanadium	**39**	4.0	
7440-66-6	Zinc	**4800**	8.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0044	Lab Sample ID:	AB32158
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**53**	2.0	
7440-39-3	Barium	**840**	2.0	
7440-41-7	Beryllium	ND	0.8	
7440-43-9	Cadmium	**4.7**	1.0	
7440-70-2	Calcium	**4100**	10	
7440-47-3	Chromium	**38**	2.0	
7440-48-4	Cobalt	**8.1**	2.0	
7440-50-8	Copper	**150**	2.0	
7439-89-6	Iron	**23000**	4.0	
7439-92-1	Lead	**4700**	6.0	
7439-95-4	Magnesium	**3200**	10	
7439-96-5	Manganese	**360**	2.0	
7440-02-0	Nickel	**13**	2.0	
7782-49-2	Selenium	ND	4.0	J2
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	12	
7440-62-2	Vanadium	**31**	2.0	
7440-66-6	Zinc	**5300**	12	

Comments: Thallium, lead and zinc reported from the 3x dilution of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Digestion:	8/31/2012	Final Volume:	50 mL
Date of Analysis:	9/10/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8.0	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	ND	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	20	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

METALS MATRIX SPIKE (MS) RESULTS

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32124

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Antimony	100	2.2	40.3	38	75 - 125
Arsenic	100	47	136	89	75 - 125
Barium	100	670	658	R	75 - 125
Beryllium	40.0	ND	37.3	93	75 - 125
Cadmium	50.0	2.6	48.6	92	75 - 125
Chromium	100	47	140	93	75 - 125
Cobalt	100	8.3	102	94	75 - 125
Copper	100	210	284	74	75 - 125
Lead	100	2600	2170	R	75 - 125
Manganese	100	350	442	92	75 - 125
Nickel	100	38	131	93	75 - 125
Selenium	100	ND	86.5	87	75 - 125
Silver	20.0	ND	20.3	102	75 - 125
Thallium	100	ND	95.1	95	75 - 125
Vanadium	100	48	144	96	75 - 125
Zinc	100	890	913	R	75 - 125

Comments:

Samples in Batch: AB32124, AB32125, AB32126, AB32127, AB32128, AB32129, AB32130, AB32139, AB32140, AB32141, AB32149, AB32150, AB32151, AB32152, AB32153, AB32154, AB32155, AB32156, AB32157, AB32158

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32125

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aluminum	8100	8100	0	30
Antimony	ND	ND	NC	30
Arsenic	23	24	4	30
Barium	200	200	0	30
Beryllium	ND	ND	NC	30
Cadmium	ND	ND	NC	30
Calcium	3000	3300	10	30
Chromium	19	20	5	30
Cobalt	6.5	6.7	3	30
Copper	74	84	13	30
Iron	16000	16000	0	30
Lead	570	620	8	30
Magnesium	2700	2700	0	30
Manganese	300	310	3	30
Nickel	17	18	6	30
Selenium	ND	ND	NC	30
Silver	ND	ND	NC	30
Thallium	ND	ND	NC	30
Vanadium	27	27	0	30
Zinc	420	440	5	30

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	1000	968	97	85 - 115
Antimony	1000	907	91	85 - 115
Arsenic	1000	884	88	85 - 115
Barium	1000	946	95	85 - 115
Beryllium	400	355	89	85 - 115
Cadmium	500	455	91	85 - 115
Calcium	10000	9340	93	85 - 115
Chromium	1000	963	96	85 - 115
Cobalt	1000	928	93	85 - 115
Copper	1000	982	98	85 - 115
Iron	1000	972	97	85 - 115
Lead	1000	922	92	85 - 115
Magnesium	10000	9540	95	85 - 115
Manganese	1000	953	95	85 - 115
Nickel	1000	917	92	85 - 115
Selenium	1000	842	84	85 - 115
Silver	200	185	93	85 - 115
Thallium	1000	966	97	85 - 115
Vanadium	1000	965	97	85 - 115
Zinc	1000	866	87	85 - 115

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Solid Laboratory Control Sample (LCS) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LCS RESULTS mg/Kg	CONTROL LIMITS mg/Kg
Aluminum	9280	3950 - 12800
Antimony	76.3	2 - 186
Arsenic	89.5	77.8 - 111
Barium	164	140 - 193
Beryllium	53.5	47.8 - 67.4
Cadmium	55.7	50.3 - 70.7
Calcium	5900	5110 - 7180
Chromium	69.4	57.6 - 83.2
Cobalt	97.2	84.9 - 119
Copper	82.8	66.7 - 92.4
Iron	13200	6330 - 18700
Lead	84.7	75.5 - 108
Magnesium	2580	1960 - 3190
Manganese	288	233 - 332
Nickel	54.6	47.7 - 67.5
Selenium	78.0	69.2 - 104
Silver	33.2	22.8 - 46.1
Thallium	119	93.9 - 145
Vanadium	60.3	41.9 - 72
Zinc	125	115 - 165

Comments:

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 2 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	~~12060001-0008~~	~~SS-04B~~	~~PCB MS~~	~~SOIL~~	~~8/22/2012~~	~~11:41~~	~~1~~	~~NONE~~	~~N~~
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterlno at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

Page 9 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christa Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 11 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 20, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number:	12080054
Project:	Kiley Barrel Allen St - Somerville, MA
Analysis:	Metals in Soil Medium Level by ICP
EPA Chemist:	Janet Paquin

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were analyzed following the EPA Region I SOP, EIASOP-INGDVICP1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP7

Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively. Samples were analyzed using a Perkin Elmer 4300 Dual View Inductively Coupled Plasma - Optical Emission Spectrometer.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.20 17:20:46 -04'00'

Laboratory Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J1	Estimated value due to MS recovery outside accceptance criteria
J2	Estimated value due to LFB result outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to LCS result outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

Sample results are reported in mg/Kg, dry weight basis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0045	Lab Sample ID:	AB32186
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9300**	11	
7440-36-0	Antimony	ND	2.0	J1
7440-38-2	Arsenic	**20**	2.0	
7440-39-3	Barium	**280**	2.0	J1
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.7**	1.0	
7440-70-2	Calcium	**3000**	10	
7440-47-3	Chromium	**32**	2.0	
7440-48-4	Cobalt	**6.6**	2.0	
7440-50-8	Copper	**130**	2.0	
7439-89-6	Iron	**18000**	4.0	
7439-92-1	Lead	**1300**	2.0	
7439-95-4	Magnesium	**2500**	10	
7439-96-5	Manganese	**280**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**57**	2.0	
7440-66-6	Zinc	**530**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0046	Lab Sample ID:	AB32187
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**18**	2.0	
7440-39-3	Barium	**280**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.1**	1.0	
7440-70-2	Calcium	**2700**	10	
7440-47-3	Chromium	**31**	2.0	
7440-48-4	Cobalt	**8.3**	2.0	
7440-50-8	Copper	**120**	2.0	
7439-89-6	Iron	**20000**	4.0	
7439-92-1	Lead	**1100**	2.0	
7439-95-4	Magnesium	**3200**	10	
7439-96-5	Manganese	**370**	2.0	
7440-02-0	Nickel	**17**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	**2.5**	4.0	
7440-62-2	Vanadium	**44**	2.0	
7440-66-6	Zinc	**660**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0048	Lab Sample ID:	AB32188
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**17**	2.0	
7440-39-3	Barium	**320**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**1.4**	1.0	
7440-70-2	Calcium	**10000**	10	
7440-47-3	Chromium	**31**	2.0	
7440-48-4	Cobalt	**6.8**	2.0	
7440-50-8	Copper	**93**	2.0	
7439-89-6	Iron	**18000**	4.1	
7439-92-1	Lead	**1100**	2.0	
7439-95-4	Magnesium	**2900**	10	
7439-96-5	Manganese	**290**	2.0	
7440-02-0	Nickel	**19**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**47**	2.0	
7440-66-6	Zinc	**530**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0049	Lab Sample ID:	AB32189
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**31**	2.0	
7440-39-3	Barium	**600**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.2**	1.0	
7440-70-2	Calcium	**4200**	10	
7440-47-3	Chromium	**40**	2.0	
7440-48-4	Cobalt	**8.0**	2.0	
7440-50-8	Copper	**110**	2.0	
7439-89-6	Iron	**23000**	4.0	
7439-92-1	Lead	**1600**	2.0	
7439-95-4	Magnesium	**3200**	10	
7439-96-5	Manganese	**360**	2.0	
7440-02-0	Nickel	**20**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**43**	2.0	
7440-66-6	Zinc	**640**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0050	Lab Sample ID:	AB32190
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9300**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**25**	2.0	
7440-39-3	Barium	**370**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.5**	1.0	
7440-70-2	Calcium	**3100**	10	
7440-47-3	Chromium	**29**	2.0	
7440-48-4	Cobalt	**6.1**	2.0	
7440-50-8	Copper	**140**	2.0	
7439-89-6	Iron	**17000**	4.0	
7439-92-1	Lead	**1100**	2.0	
7439-95-4	Magnesium	**2900**	10	
7439-96-5	Manganese	**290**	2.0	
7440-02-0	Nickel	**14**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**28**	2.0	
7440-66-6	Zinc	**690**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0051	Lab Sample ID:	AB32191
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**10000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**8.3**	2.0	
7440-39-3	Barium	**180**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**5500**	10	
7440-47-3	Chromium	**20**	2.0	
7440-48-4	Cobalt	**5.1**	2.0	
7440-50-8	Copper	**62**	2.0	
7439-89-6	Iron	**13000**	4.1	
7439-92-1	Lead	**720**	2.0	
7439-95-4	Magnesium	**2400**	10	
7439-96-5	Manganese	**250**	2.0	
7440-02-0	Nickel	**11**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**26**	2.0	
7440-66-6	Zinc	**300**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0052		Lab Sample ID:	AB32192
Date of Collection:	8/22/2012		Matrix	Soil
Date of Digestion:	9/4/2012		Final Volume:	50 mL
Date of Analysis:	9/11/2012		Digestate Dilution:	1
Volume Digested:	N/A		pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**8900**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**49**	2.0	
7440-39-3	Barium	**680**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**2.5**	1.0	
7440-70-2	Calcium	**5600**	10	
7440-47-3	Chromium	**46**	2.0	
7440-48-4	Cobalt	**8.4**	2.0	
7440-50-8	Copper	**200**	2.0	
7439-89-6	Iron	**23000**	4.1	
7439-92-1	Lead	**2600**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**350**	2.0	
7440-02-0	Nickel	**38**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**47**	2.0	
7440-66-6	Zinc	**950**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0053	Lab Sample ID:	AB32193
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	**2.2**	2.0	
7440-38-2	Arsenic	**47**	2.0	
7440-39-3	Barium	**970**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**5.2**	1.0	
7440-70-2	Calcium	**5600**	10	
7440-47-3	Chromium	**46**	2.0	
7440-48-4	Cobalt	**9.3**	2.0	
7440-50-8	Copper	**320**	2.0	
7439-89-6	Iron	**24000**	4.1	
7439-92-1	Lead	**3400**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**390**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**46**	2.0	
7440-66-6	Zinc	**2500**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0054	Lab Sample ID:	AB32194
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	12	
7440-36-0	Antimony	ND	2.2	
7440-38-2	Arsenic	**9.6**	2.2	
7440-39-3	Barium	**130**	2.2	
7440-41-7	Beryllium	ND	0.87	
7440-43-9	Cadmium	ND	1.1	
7440-70-2	Calcium	**2900**	11	
7440-47-3	Chromium	**24**	2.2	
7440-48-4	Cobalt	**7.4**	2.2	
7440-50-8	Copper	**64**	2.2	
7439-89-6	Iron	**19000**	4.4	
7439-92-1	Lead	**440**	2.2	
7439-95-4	Magnesium	**3400**	11	
7439-96-5	Manganese	**310**	2.2	
7440-02-0	Nickel	**15**	2.2	
7782-49-2	Selenium	ND	4.4	
7440-22-4	Silver	ND	1.1	
7440-28-0	Thallium	ND	4.4	
7440-62-2	Vanadium	**35**	2.2	
7440-66-6	Zinc	**310**	4.4	

Comments: Zinc reported from the re-analysis of 9/11/2012.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0055	Lab Sample ID:	AB32195
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**13000**	11	
7440-36-0	Antimony	ND	2.1	
7440-38-2	Arsenic	**7.8**	2.1	
7440-39-3	Barium	**94**	2.1	
7440-41-7	Beryllium	ND	0.83	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**2700**	10	
7440-47-3	Chromium	**24**	2.1	
7440-48-4	Cobalt	**8.9**	2.1	
7440-50-8	Copper	**47**	2.1	
7439-89-6	Iron	**20000**	4.2	
7439-92-1	Lead	**250**	2.1	
7439-95-4	Magnesium	**3800**	10	
7439-96-5	Manganese	**340**	2.1	
7440-02-0	Nickel	**16**	2.1	
7782-49-2	Selenium	ND	4.2	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	**36**	2.1	
7440-66-6	Zinc	**190**	4.2	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0056	Lab Sample ID:	AB32196
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**13000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**12**	2.0	
7440-39-3	Barium	**200**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**3600**	10	
7440-47-3	Chromium	**26**	2.0	
7440-48-4	Cobalt	**9.8**	2.0	
7440-50-8	Copper	**72**	2.0	
7439-89-6	Iron	**23000**	4.0	
7439-92-1	Lead	**450**	2.0	
7439-95-4	Magnesium	**4200**	10	
7439-96-5	Manganese	**450**	2.0	
7440-02-0	Nickel	**16**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**36**	2.0	
7440-66-6	Zinc	**350**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0057	Lab Sample ID:	AB32197
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**10000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**9.4**	2.0	
7440-39-3	Barium	**180**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**7900**	10	
7440-47-3	Chromium	**23**	2.0	
7440-48-4	Cobalt	**4.9**	2.0	
7440-50-8	Copper	**57**	2.0	
7439-89-6	Iron	**14000**	4.1	
7439-92-1	Lead	**920**	2.0	
7439-95-4	Magnesium	**2500**	10	
7439-96-5	Manganese	**220**	2.0	
7440-02-0	Nickel	**12**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**31**	2.0	
7440-66-6	Zinc	**310**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0058	Lab Sample ID:	AB32198
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**15**	2.0	
7440-39-3	Barium	**340**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**1.6**	1.0	
7440-70-2	Calcium	**4300**	10	
7440-47-3	Chromium	**31**	2.0	
7440-48-4	Cobalt	**8.0**	2.0	
7440-50-8	Copper	**100**	2.0	
7439-89-6	Iron	**21000**	4.0	
7439-92-1	Lead	**1100**	2.0	
7439-95-4	Magnesium	**3100**	10	
7439-96-5	Manganese	**360**	2.0	
7440-02-0	Nickel	**17**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**48**	2.0	
7440-66-6	Zinc	**590**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0059	Lab Sample ID:	AB32199
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**13000**	12	
7440-36-0	Antimony	ND	2.1	
7440-38-2	Arsenic	**21**	2.1	
7440-39-3	Barium	**430**	2.1	
7440-41-7	Beryllium	ND	0.85	
7440-43-9	Cadmium	**1.9**	1.1	
7440-70-2	Calcium	**4600**	11	
7440-47-3	Chromium	**43**	2.1	
7440-48-4	Cobalt	**8.9**	2.1	
7440-50-8	Copper	**260**	2.1	
7439-89-6	Iron	**26000**	4.2	
7439-92-1	Lead	**1400**	2.1	
7439-95-4	Magnesium	**3800**	11	
7439-96-5	Manganese	**410**	2.1	
7440-02-0	Nickel	**22**	2.1	
7782-49-2	Selenium	ND	4.2	
7440-22-4	Silver	ND	1.1	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	**44**	2.1	
7440-66-6	Zinc	**860**	4.2	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0078	Lab Sample ID:	AB32209
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	**Parameter**	**Concentration mg/Kg**	**RL mg/Kg**	**Qualifier**
7429-90-5	Aluminum	**9700**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**8.7**	2.0	
7440-39-3	Barium	**320**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**1.4**	1.0	
7440-70-2	Calcium	**3500**	10	
7440-47-3	Chromium	**24**	2.0	
7440-48-4	Cobalt	**6.3**	2.0	
7440-50-8	Copper	**110**	2.0	
7439-89-6	Iron	**17000**	4.1	
7439-92-1	Lead	**990**	2.0	
7439-95-4	Magnesium	**2400**	10	
7439-96-5	Manganese	**270**	2.0	
7440-02-0	Nickel	**19**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**46**	2.0	
7440-66-6	Zinc	**400**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0079	Lab Sample ID:	AB32210
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**8.4**	2.0	
7440-39-3	Barium	**200**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	**2.2**	1.0	
7440-70-2	Calcium	**3300**	10	
7440-47-3	Chromium	**23**	2.0	
7440-48-4	Cobalt	**5.8**	2.0	
7440-50-8	Copper	**67**	2.0	
7439-89-6	Iron	**16000**	4.1	
7439-92-1	Lead	**780**	2.0	
7439-95-4	Magnesium	**2300**	10	
7439-96-5	Manganese	**280**	2.0	
7440-02-0	Nickel	**15**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**39**	2.0	
7440-66-6	Zinc	**260**	4.1	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0047	Lab Sample ID:	AB32255
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**12000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**13**	2.0	
7440-39-3	Barium	**240**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**2500**	10	
7440-47-3	Chromium	**25**	2.0	
7440-48-4	Cobalt	**7.7**	2.0	
7440-50-8	Copper	**100**	2.0	
7439-89-6	Iron	**19000**	4.0	
7439-92-1	Lead	**750**	2.0	
7439-95-4	Magnesium	**3400**	10	
7439-96-5	Manganese	**320**	2.0	
7440-02-0	Nickel	**14**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**37**	2.0	
7440-66-6	Zinc	**460**	4.0	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8.0	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	ND	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

METALS MATRIX SPIKE (MS) RESULTS

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32186

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Antimony	100	ND	39.0	39	75 - 125
Arsenic	100	20	112	92	75 - 125
Barium	100	280	344	64	75 - 125
Beryllium	40.0	ND	38.7	97	75 - 125
Cadmium	50.0	1.7	49.1	95	75 - 125
Chromium	100	32	130	98	75 - 125
Cobalt	100	6.6	104	97	75 - 125
Copper	100	130	228	98	75 - 125
Lead	100	1300	1410	110	75 - 125
Manganese	100	280	371	91	75 - 125
Nickel	100	18	115	97	75 - 125
Selenium	100	ND	90.0	90	75 - 125
Silver	20.0	ND	20.3	102	75 - 125
Thallium	100	ND	97.6	98	75 - 125
Vanadium	100	57	155	98	75 - 125
Zinc	100	530	611	R	75 - 125

Comments:

Samples in Batch: AB32186, AB32187, AB32188, AB32189, AB32190, AB32191, AB32192, AB32193, AB32194, AB32195, AB32196, AB32197, AB32198, AB32199, AB32209, AB32210, AB32255

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32187

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aluminum	11000	11000	0	30
Antimony	ND	ND	NC	30
Arsenic	18	18	0	30
Barium	280	300	7	30
Beryllium	ND	ND	NC	30
Cadmium	1.1	1.2	9	30
Calcium	2700	2700	0	30
Chromium	31	28	10	30
Cobalt	8.3	7.9	5	30
Copper	120	120	0	30
Iron	20000	19000	5	30
Lead	1100	1200	9	30
Magnesium	3200	3100	3	30
Manganese	370	350	6	30
Nickel	17	16	6	30
Selenium	ND	ND	NC	30
Silver	ND	ND	NC	30
Thallium	2.5	ND	NC	30
Vanadium	44	42	5	30
Zinc	660	620	6	30

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	1000	993	99	85 - 115
Antimony	1000	923	92	85 - 115
Arsenic	1000	901	90	85 - 115
Barium	1000	972	97	85 - 115
Beryllium	400	362	91	85 - 115
Cadmium	500	468	94	85 - 115
Calcium	10000	9600	96	85 - 115
Chromium	1000	987	99	85 - 115
Cobalt	1000	953	95	85 - 115
Copper	1000	1000	100	85 - 115
Iron	1000	997	100	85 - 115
Lead	1000	954	95	85 - 115
Magnesium	10000	9700	97	85 - 115
Manganese	1000	974	97	85 - 115
Nickel	1000	944	94	85 - 115
Selenium	1000	866	87	85 - 115
Silver	200	190	95	85 - 115
Thallium	1000	981	98	85 - 115
Vanadium	1000	990	99	85 - 115
Zinc	1000	897	90	85 - 115

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Solid Laboratory Control Sample (LCS) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LCS RESULTS mg/Kg	CONTROL LIMITS mg/Kg
Aluminum	9110	3950 - 12800
Antimony	74.3	2 - 186
Arsenic	95.3	77.8 - 111
Barium	176	140 - 193
Beryllium	58.5	47.8 - 67.4
Cadmium	61.5	50.3 - 70.7
Calcium	6510	5110 - 7180
Chromium	74.3	57.6 - 83.2
Cobalt	106	84.9 - 119
Copper	90.9	66.7 - 92.4
Iron	12500	6330 - 18700
Lead	91.9	75.5 - 108
Magnesium	2690	1960 - 3190
Manganese	305	233 - 332
Nickel	59.9	47.7 - 67.5
Selenium	83.6	69.2 - 104
Silver	35.8	22.8 - 46.1
Thallium	125	93.9 - 145
Vanadium	60.6	41.9 - 72
Zinc	137	115 - 165

Comments:

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sy	8/23		8/23/12	8:35						

Page 5 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	~~12060001-0021~~	~~SS-09A~~	~~SVOC~~	~~SOIL~~	~~8/22/2012~~	~~10:33~~	~~1~~	~~none~~	~~n~~
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 6 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Printed on 100% Recycled Paper

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

Page 9 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christie Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 20, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number:	12080055
Project:	Kiley Barrel Allen St - Somerville, MA
Analysis:	Metals in Soil Medium Level by ICP
EPA Chemist:	Janet Paquin

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.
Samples were analyzed following the EPA Region I SOP, EIASOP-INGDVICP1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP7

Preparation and analysis SOP's are based on "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition, Revision 2, Final Update III, Methods 3050B and 6010B," respectively. Samples were analyzed using a Perkin Elmer 4300 Dual View Inductively Coupled Plasma - Optical Emission Spectrometer.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.20 17:38:55 -04'00'

Laboratory Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J1	Estimated value due to MS recovery outside accceptance criteria
J2	Estimated value due to LFB result outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to LCS result outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

All sample results, except the results for AB32228, AB32229, and AB32230 are reported in mg/Kg, dry weight basis.
The results for samples AB32228, AB32229 and AB32230 are reported as received, mg/Kg.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0080	Lab Sample ID:	AB32221
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9900**	11	
7440-36-0	Antimony	ND	2.0	J1
7440-38-2	Arsenic	**13**	2.0	
7440-39-3	Barium	**270**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**2.6**	1.0	
7440-70-2	Calcium	**4900**	10	
7440-47-3	Chromium	**27**	2.0	
7440-48-4	Cobalt	**8.3**	2.0	
7440-50-8	Copper	**140**	2.0	
7439-89-6	Iron	**25000**	4.0	
7439-92-1	Lead	**930**	2.0	
7439-95-4	Magnesium	**2700**	10	
7439-96-5	Manganese	**350**	2.0	
7440-02-0	Nickel	**26**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**48**	2.0	
7440-66-6	Zinc	**720**	4.0	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0081	Lab Sample ID:	AB32222
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/12/2012	Digestate Dilution:	3
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**7400**	38	
7440-36-0	Antimony	ND	6.8	
7440-38-2	Arsenic	**23**	6.8	J3
7440-39-3	Barium	**270**	6.8	J3
7440-41-7	Beryllium	ND	2.7	
7440-43-9	Cadmium	**11**	3.4	J3
7440-70-2	Calcium	**4500**	34	
7440-47-3	Chromium	**34**	6.8	
7440-48-4	Cobalt	**8.5**	6.8	
7440-50-8	Copper	**350**	6.8	
7439-89-6	Iron	**36000**	14	J3
7439-92-1	Lead	**1200**	6.8	
7439-95-4	Magnesium	**2700**	34	
7439-96-5	Manganese	**340**	6.8	
7440-02-0	Nickel	**32**	6.8	J3
7782-49-2	Selenium	ND	14	
7440-22-4	Silver	ND	3.4	
7440-28-0	Thallium	ND	14	
7440-62-2	Vanadium	**32**	6.8	
7440-66-6	Zinc	**1700**	14	

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0082	Lab Sample ID:	AB32223
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**11000**	12	
7440-36-0	Antimony	ND	2.1	
7440-38-2	Arsenic	**13**	2.1	
7440-39-3	Barium	**330**	2.1	
7440-41-7	Beryllium	ND	0.85	
7440-43-9	Cadmium	**2.7**	1.1	
7440-70-2	Calcium	**5400**	11	
7440-47-3	Chromium	**28**	2.1	
7440-48-4	Cobalt	**9.3**	2.1	
7440-50-8	Copper	**170**	2.1	
7439-89-6	Iron	**25000**	4.2	
7439-92-1	Lead	**1300**	2.1	
7439-95-4	Magnesium	**2700**	11	
7439-96-5	Manganese	**360**	2.1	
7440-02-0	Nickel	**27**	2.1	
7782-49-2	Selenium	ND	4.2	
7440-22-4	Silver	ND	1.1	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	**52**	2.1	
7440-66-6	Zinc	**810**	4.2	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0083	Lab Sample ID:	AB32224
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**10000**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**12**	2.0	
7440-39-3	Barium	**330**	2.0	
7440-41-7	Beryllium	ND	0.82	
7440-43-9	Cadmium	ND	1.0	
7440-70-2	Calcium	**5200**	10	
7440-47-3	Chromium	**21**	2.0	
7440-48-4	Cobalt	**7.6**	2.0	
7440-50-8	Copper	**130**	2.0	
7439-89-6	Iron	**21000**	4.1	
7439-92-1	Lead	**1100**	2.0	
7439-95-4	Magnesium	**2600**	10	
7439-96-5	Manganese	**310**	2.0	
7440-02-0	Nickel	**18**	2.0	
7782-49-2	Selenium	ND	4.1	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.1	
7440-62-2	Vanadium	**33**	2.0	
7440-66-6	Zinc	**510**	4.1	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0084	Lab Sample ID:	AB32225
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**8800**	12	
7440-36-0	Antimony	ND	2.2	
7440-38-2	Arsenic	**15**	2.2	
7440-39-3	Barium	**710**	2.2	
7440-41-7	Beryllium	ND	0.87	
7440-43-9	Cadmium	**3.3**	1.1	
7440-70-2	Calcium	**4600**	11	
7440-47-3	Chromium	**26**	2.2	
7440-48-4	Cobalt	**6.0**	2.2	
7440-50-8	Copper	**170**	2.2	
7439-89-6	Iron	**19000**	4.4	
7439-92-1	Lead	**2700**	2.2	
7439-95-4	Magnesium	**2300**	11	
7439-96-5	Manganese	**250**	2.2	
7440-02-0	Nickel	**19**	2.2	
7782-49-2	Selenium	ND	4.4	
7440-22-4	Silver	ND	1.1	
7440-28-0	Thallium	ND	4.4	
7440-62-2	Vanadium	**32**	2.2	
7440-66-6	Zinc	**1000**	4.4	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0085	Lab Sample ID:	AB32226
Date of Collection:	8/21/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**9300**	11	
7440-36-0	Antimony	ND	2.0	
7440-38-2	Arsenic	**21**	2.0	
7440-39-3	Barium	**650**	2.0	
7440-41-7	Beryllium	ND	0.80	
7440-43-9	Cadmium	**3.1**	1.0	
7440-70-2	Calcium	**9900**	10	
7440-47-3	Chromium	**43**	2.0	
7440-48-4	Cobalt	**6.4**	2.0	
7440-50-8	Copper	**100**	2.0	
7439-89-6	Iron	**21000**	4.0	
7439-92-1	Lead	**3000**	2.0	
7439-95-4	Magnesium	**3000**	10	
7439-96-5	Manganese	**320**	2.0	
7440-02-0	Nickel	**20**	2.0	
7782-49-2	Selenium	ND	4.0	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**71**	2.0	
7440-66-6	Zinc	**1200**	4.0	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0086	Lab Sample ID:	AB32227
Date of Collection:	8/22/2012	Matrix	Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	**Parameter**	**Concentration mg/Kg**	**RL mg/Kg**	**Qualifier**
7429-90-5	Aluminum	**9700**	11	
7440-36-0	Antimony	**2.2**	2.1	
7440-38-2	Arsenic	**14**	2.1	
7440-39-3	Barium	**300**	2.1	
7440-41-7	Beryllium	ND	0.83	
7440-43-9	Cadmium	**3.2**	1.0	
7440-70-2	Calcium	**5300**	10	
7440-47-3	Chromium	**26**	2.1	
7440-48-4	Cobalt	**9.0**	2.1	
7440-50-8	Copper	**160**	2.1	
7439-89-6	Iron	**20000**	4.2	
7439-92-1	Lead	**880**	2.1	
7439-95-4	Magnesium	**2600**	10	
7439-96-5	Manganese	**300**	2.1	
7440-02-0	Nickel	**25**	2.1	
7782-49-2	Selenium	ND	4.2	
7440-22-4	Silver	ND	1.0	
7440-28-0	Thallium	ND	4.2	
7440-62-2	Vanadium	**40**	2.1	
7440-66-6	Zinc	**740**	4.2	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0087	Lab Sample ID:	AB32228
Date of Collection:	8/24/2012	Matrix	PE-Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**2200**	11	
7440-36-0	Antimony	**69**	2.0	
7440-38-2	Arsenic	**78**	2.0	
7440-39-3	Barium	**5.7**	2.0	
7440-41-7	Beryllium	**24**	0.80	
7440-43-9	Cadmium	**17**	1.0	
7440-70-2	Calcium	**900**	10	
7440-47-3	Chromium	**3.3**	2.0	
7440-48-4	Cobalt	**31**	2.0	
7440-50-8	Copper	**30**	2.0	
7439-89-6	Iron	**3800**	4.0	
7439-92-1	Lead	**39**	2.0	
7439-95-4	Magnesium	**6800**	10	
7439-96-5	Manganese	**37**	2.0	
7440-02-0	Nickel	**34**	2.0	
7782-49-2	Selenium	**14**	4.0	
7440-22-4	Silver	**9.3**	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**130**	2.0	
7440-66-6	Zinc	**5.9**	4.0	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0088	Lab Sample ID:	AB32229
Date of Collection:	8/24/2012	Matrix	PE-Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**2200**	11	
7440-36-0	Antimony	**52**	2.0	
7440-38-2	Arsenic	**29**	2.0	
7440-39-3	Barium	**150**	2.0	
7440-41-7	Beryllium	**8.8**	0.78	
7440-43-9	Cadmium	ND	0.98	
7440-70-2	Calcium	**930**	9.8	
7440-47-3	Chromium	**22**	2.0	
7440-48-4	Cobalt	**30**	2.0	
7440-50-8	Copper	**43**	2.0	
7439-89-6	Iron	**2500**	3.9	
7439-92-1	Lead	**31**	2.0	
7439-95-4	Magnesium	**370**	9.8	
7439-96-5	Manganese	**37**	2.0	
7440-02-0	Nickel	**33**	2.0	
7782-49-2	Selenium	**8.1**	3.9	
7440-22-4	Silver	**37**	0.98	
7440-28-0	Thallium	ND	3.9	
7440-62-2	Vanadium	**58**	2.0	
7440-66-6	Zinc	**6.1**	3.9	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Metals in Soil Medium Level by ICP

Client Sample ID:	12060001-0089	Lab Sample ID:	AB32230
Date of Collection:	8/24/2012	Matrix	PE-Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration mg/Kg	RL mg/Kg	Qualifier
7429-90-5	Aluminum	**2400**	11	
7440-36-0	Antimony	**72**	2.0	
7440-38-2	Arsenic	**90**	2.0	
7440-39-3	Barium	**6.5**	2.0	
7440-41-7	Beryllium	**26**	0.80	
7440-43-9	Cadmium	**18**	1.0	
7440-70-2	Calcium	**980**	10	
7440-47-3	Chromium	**3.6**	2.0	
7440-48-4	Cobalt	**33**	2.0	
7440-50-8	Copper	**32**	2.0	
7439-89-6	Iron	**4100**	4.0	
7439-92-1	Lead	**42**	2.0	
7439-95-4	Magnesium	**7800**	10	
7439-96-5	Manganese	**41**	2.0	
7440-02-0	Nickel	**36**	2.0	
7782-49-2	Selenium	**16**	4.0	
7440-22-4	Silver	**10**	1.0	
7440-28-0	Thallium	ND	4.0	
7440-62-2	Vanadium	**150**	2.0	
7440-66-6	Zinc	**4.9**	4.0	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	PE-Soil
Date of Digestion:	9/4/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	N/A	pH:	N/A

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8.0	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	ND	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

Comments: Thallium result reported from 9/12/12 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

METALS MATRIX SPIKE (MS) RESULTS

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32221

PARAMETER	SPIKE ADDED mg/Kg	SAMPLE CONCENTRATION mg/Kg	MS CONCENTRATION mg/Kg	MS % REC	QC LIMITS (% REC)
Antimony	100	ND	32.8	33	75 - 125
Arsenic	100	13	102	89	75 - 125
Barium	100	270	394	124	75 - 125
Beryllium	40.0	ND	37.1	93	75 - 125
Cadmium	50.0	2.6	48.3	91	75 - 125
Chromium	100	27	123	96	75 - 125
Cobalt	100	8.3	103	95	75 - 125
Copper	100	140	257	117	75 - 125
Lead	100	930	1070	R	75 - 125
Manganese	100	350	431	81	75 - 125
Nickel	100	26	118	92	75 - 125
Selenium	100	ND	84.7	85	75 - 125
Silver	20.0	ND	20.0	100	75 - 125
Thallium	100	ND	94.2	94	75 - 125
Vanadium	100	48	146	98	75 - 125
Zinc	100	720	837	R	75 - 125

Comments:

Samples in Batch: AB32221, AB32222, AB32223, AB32224, AB32225, AB32226, AB32227, AB32228, AB32229, AB32230

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32222

PARAMETER	SAMPLE RESULT mg/Kg	SAMPLE DUPLICATE RESULT mg/Kg	PRECISION RPD %	QC LIMITS
Aluminum	7400	8100	9	30
Antimony	ND	ND	NC	30
Arsenic	23	39	52	30
Barium	270	450	50	30
Beryllium	ND	ND	NC	30
Cadmium	11	15	31	30
Calcium	4500	4800	7	30
Chromium	34	41	19	30
Cobalt	8.5	11	26	30
Copper	350	460	27	30
Iron	36000	58000	47	30
Lead	1200	1400	15	30
Magnesium	2700	2600	4	30
Manganese	340	430	23	30
Nickel	32	45	34	30
Selenium	ND	ND	NC	30
Silver	ND	ND	NC	30
Thallium	ND	ND	NC	30
Vanadium	32	34	6	30
Zinc	1700	2200	26	30

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	1000	1030	103	85 - 115
Antimony	1000	926	93	85 - 115
Arsenic	1000	906	91	85 - 115
Barium	1000	990	99	85 - 115
Beryllium	400	370	93	85 - 115
Cadmium	500	475	95	85 - 115
Calcium	10000	9800	98	85 - 115
Chromium	1000	999	100	85 - 115
Cobalt	1000	973	97	85 - 115
Copper	1000	1020	102	85 - 115
Iron	1000	1010	101	85 - 115
Lead	1000	968	97	85 - 115
Magnesium	10000	9820	98	85 - 115
Manganese	1000	982	98	85 - 115
Nickel	1000	958	96	85 - 115
Selenium	1000	864	86	85 - 115
Silver	200	193	97	85 - 115
Thallium	1000	1010	101	85 - 115
Vanadium	1000	1000	100	85 - 115
Zinc	1000	914	91	85 - 115

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Solid Laboratory Control Sample (LCS) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LCS RESULTS mg/Kg	CONTROL LIMITS mg/Kg
Aluminum	8690	3950 - 12800
Antimony	71.8	2 - 186
Arsenic	89.1	77.8 - 111
Barium	166	140 - 193
Beryllium	55.1	47.8 - 67.4
Cadmium	57.8	50.3 - 70.7
Calcium	6010	5110 - 7180
Chromium	72.5	57.6 - 83.2
Cobalt	100	84.9 - 119
Copper	86.0	66.7 - 92.4
Iron	12300	6330 - 18700
Lead	86.8	75.5 - 108
Magnesium	2530	1960 - 3190
Manganese	277	233 - 332
Nickel	56.5	47.7 - 67.5
Selenium	77.3	69.2 - 104
Silver	34.6	22.8 - 46.1
Thallium	122	93.9 - 145
Vanadium	58.8	41.9 - 72
Zinc	130	115 - 165

Comments:

PN: 12080053

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Printed on 100% Recycled Paper

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

Page 3 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 4 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ely	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christie ely	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	~~12060001-0062~~	~~SS-22C~~	~~VOC~~	~~SOIL~~	~~8/21/2012~~	~~12:23~~	~~1~~	~~MEOH~~	~~N~~
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	~~12060001-0084~~	~~SS-31C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~10:02~~	~~1~~	~~NONE~~	~~N~~
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

August 30, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: VOAs in Water
Analyst: Joseph Montanaro

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-VOAGCMS9.

Samples were analyzed by GC/MS. Samples were introduced to the GC via a Tekmar pre-concentrator and an Archon autosampler. The analysis SOP is based on US EPA Method 8260B, method 5030B, rev 2.0 SW-846, Rev 2.0,1996. Method 624, 40CFR Part 136 Appendix A, July 1, 1992, and USEPA CLP SOW for Organic Analysis OLM04.2, 1999.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.08.30 09:23:12 -04'00'

Qualifiers:
RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

Kiley Barrel Allen St - Somerville, MA

VOAs in Water

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Water

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	114	74 - 136
Toluene-D8	98	85 - 118
1,4-Bromofluorobenzene	98	78 - 111

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5.0 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	**Compound**	**Concentration ug/L**	**RL ug/L**	**Qualifier**
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroetha	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	**1.1**	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5.0 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	113	74 - 136
Toluene-D8	99	85 - 118
1,4-Bromofluorobenzene	96	78 - 111

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank for $VOAMW

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5.0 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	~6

CAS Number	**Compound**	**Concentration ug/L**	**RL ug/L**	**Qualifier**

Comments: Laboratory blank is associated with all samples in this project.

Acetone was reported in this laboratory blank at 1.1 ug/L. Observation(s) of this compound in samples will be qualified with a B.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

VOAs in Water

Client Sample ID:	12060001-0026	Lab Sample ID:	AB32147
Date of Collection:	8/22/2012	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
630-20-6	1,1,1,2-Tetrachloroethane	ND	1.0	
71-55-6	1,1,1-Trichloroethane	ND	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	1.0	
79-00-5	1,1,2-Trichloroethane	ND	1.0	
75-35-4	1,1-Dichloroethylene	ND	1.0	
563-58-6	1,1-Dichloropropene	ND	1.0	
75-34-3	1,1-dichloroethane	ND	1.0	
87-61-6	1,2,3-Trichlorobenzene	ND	1.0	
96-18-4	1,2,3-Trichloropropane	ND	1.0	
120-82-1	1,2,4-Trichlorobenzene	ND	1.0	
95-63-6	1,2,4-Trimethylbenzene	ND	1.0	
96-12-8	1,2-Dibromo-3-Chloropropane	ND	1.0	
106-93-4	1,2-Dibromoethane	ND	1.0	
95-50-1	1,2-Dichlorobenzene	ND	1.0	
107-06-2	1,2-Dichloroethane	ND	1.0	
78-87-5	1,2-Dichloropropane	ND	1.0	
108-67-8	1,3,5-Trimethylbenzene	ND	1.0	
541-73-1	1,3-Dichlorobenzene	ND	1.0	
142-28-9	1,3-Dichloropropane	ND	1.0	
106-46-7	1,4-Dichlorobenzene	ND	1.0	
594-20-7	2,2-Dichloropropane	ND	1.0	
78-93-3	2-Butanone (MEK)	ND	1.0	
95-49-8	2-Chlorotoluene	ND	1.0	
591-78-6	2-Hexanone	ND	1.0	
67-64-1	2-Propanone (acetone)	ND	1.0	
106-43-4	4-Chlorotoluene	ND	1.0	
108-10-1	4-Methyl-2-Pentanone(MIBK)	ND	1.0	
107-13-1	Acrylonitrile	ND	1.0	
71-43-2	Benzene	ND	1.0	
108-86-1	Bromobenzene	ND	1.0	
74-97-5	Bromochloromethane	ND	1.0	
75-27-4	Bromodichloromethane	ND	1.0	
75-25-2	Bromoform	ND	1.0	
74-83-9	Bromomethane	ND	1.0	
75-15-0	Carbon Disulfide	ND	1.0	
56-23-5	Carbon tetrachloride	ND	1.0	
108-90-7	Chlorobenzene	ND	1.0	
75-00-3	Chloroethane	ND	1.0	
67-66-3	Chloroform	ND	1.0	

Kiley Barrel Allen St - Somerville, MA

VOAs in Water

Client Sample ID:	12060001-0026	Lab Sample ID:	AB32147
Date of Collection:	8/22/2012	Matrix	Water
Date of Extraction:	8/27/12	Volume Purged:	5 mL
Date of Analysis:	8/27/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	<2

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
74-87-3	Chloromethane	ND	1.0	
124-48-1	Dibromochloromethane	ND	1.0	
74-95-3	Dibromomethane	ND	1.0	
75-71-8	Dichlorodifluoromethane	ND	1.0	
60-29-7	Ethyl Ether	ND	1.0	
100-41-4	Ethylbenzene	ND	1.0	
87-68-3	Hexachlorobutadiene	ND	1.0	
98-82-8	Isopropylbenzene	ND	1.0	
108-38-3/106-42-	M/P Xylene	ND	2.0	
1634-04-4	Methyl-t-Butyl Ether	ND	1.0	
75-09-2	Methylene Chloride	ND	1.0	
104-51-8	N-Butylbenzene	ND	1.0	
103-65-1	N-Propylbenzene	ND	1.0	
91-20-3	Naphthalene	ND	1.0	
95-47-6	Ortho Xylene	ND	1.0	
99-87-6	Para-Isopropyltoluene	ND	1.0	
135-98-8	Sec-Butylbenzene	ND	1.0	
100-42-5	Styrene	ND	1.0	
98-06-6	Tert-Butylbenzene	ND	1.0	
127-18-4	Tetrachloroethylene	ND	1.0	
109-99-9	Tetrahydrofuran	ND	1.0	
108-88-3	Toluene	ND	1.0	
156-60-5	Trans-1,2-Dichloroethylene	ND	1.0	
79-01-6	Trichloroethylene	ND	1.0	
75-69-4	Trichlorofluoromethane	ND	1.0	
108-05-4	Vinyl Acetate	ND	1.0	
75-01-4	Vinyl Chloride	ND	1.0	
10061-01-5	c-1,3-dichloropropene	ND	1.0	
156-59-2	cis-1,2-Dichloroethylene	ND	1.0	
10061-02-6	t-1,3-Dichloropropene	ND	1.0	

Surrogate Compounds	Recoveries (%)	QC Ranges
1,2-Dichloroethane-D4	110	74 - 136
Toluene-D8	100	85 - 118
1,4-Bromofluorobenzene	96	78 - 111

Comments:

VOA MATRIX SPIKE (MS) / MATRIX SPIKE DUPLICATE (MSD) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32123

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,1,1,2-Tetrachloroethane	20	ND	20	100	67 - 129
1,1,1-Trichloroethane	20	ND	20	100	75 - 139
1,1,2,2-Tetrachloroethane	20	ND	20	100	50 - 142
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	ND	20	100	55 - 135
1,1,2-Trichloroethane	20	ND	20	100	62 - 142
1,1-Dichloroethylene	20	ND	19	95	80 - 138
1,1-Dichloropropene	20	ND	20	100	73 - 131
1,1-dichloroethane	20	ND	20	100	61 - 152
1,2,3-Trichlorobenzene	20	ND	18	90	49 - 143
1,2,3-Trichloropropane	20	ND	19	95	53 - 135
1,2,4-Trichlorobenzene	20	ND	18	90	63 - 131
1,2,4-Trimethylbenzene	20	ND	19	95	79 - 142
1,2-Dibromo-3-Chloropropane	20	ND	18	90	28 - 122
1,2-Dibromoethane	20	ND	18	90	53 - 139
1,2-Dichlorobenzene	20	ND	19	95	74 - 129
1,2-Dichloroethane	20	ND	21	105	61 - 142
1,2-Dichloropropane	20	ND	19	95	71 - 126
1,3,5-Trimethylbenzene	20	ND	19	95	77 - 140
1,3-Dichlorobenzene	20	ND	19	95	78 - 127
1,3-Dichloropropane	20	ND	19	95	63 - 130
1,4-Dichlorobenzene	20	ND	18	90	72 - 131
2,2-Dichloropropane	20	ND	20	100	50 - 139
2-Butanone (MEK)	20	ND	13	65	29 - 163
2-Chlorotoluene	20	ND	19	95	74 - 134
2-Hexanone	20	ND	15	75	36 - 141
2-Propanone (acetone)	20	ND	10	50	29 - 164
4-Chlorotoluene	20	ND	19	95	68 - 141
4-Methyl-2-Pentanone(MIBK)	20	ND	20	100	35 - 139
Acrylonitrile	20	ND	22	110	42 - 150
Benzene	20	ND	19	95	78 - 134
Bromobenzene	20	ND	19	95	76 - 126
Bromochloromethane	20	ND	20	100	62 - 140
Bromodichloromethane	20	ND	20	100	62 - 133
Bromoform	20	ND	19	95	31 - 133
Bromomethane	20	ND	21	105	58 - 148
Carbon Disulfide	20	ND	19	95	66 - 135
Carbon tetrachloride	20	ND	21	105	62 - 146
Chlorobenzene	20	ND	19	95	74 - 139
Chloroethane	20	ND	20	100	65 - 145
Chloroform	20	ND	21	105	60 - 144
Chloromethane	20	ND	19	95	58 - 134
Dibromochloromethane	20	ND	20	100	34 - 140
Dibromomethane	20	ND	19	95	67 - 125
Dichlorodifluoromethane	20	ND	17	85	30 - 132
Ethyl Ether	20	ND	22	110	58 - 145
Ethylbenzene	20	ND	20	100	73 - 143
Hexachlorobutadiene	20	ND	19	95	56 - 144
Isopropylbenzene	20	ND	19	95	73 - 139

M/P Xylene	40	ND	38	95	79 - 136
Methyl-t-Butyl Ether	20	ND	20	100	50 - 144
Methylene Chloride	20	ND	22	110	70 - 144
N-Butylbenzene	20	ND	19	95	68 - 143
N-Propylbenzene	20	ND	19	95	72 - 149
Naphthalene	20	ND	18	90	33 - 154
Ortho Xylene	20	ND	19	95	80 - 129
Para-Isopropyltoluene	20	ND	19	95	71 - 140
Sec-Butylbenzene	20	ND	19	95	75 - 148
Styrene	20	ND	20	100	61 - 148
Tert-Butylbenzene	20	ND	19	95	71 - 139
Tetrachloroethylene	20	ND	18	90	45 - 145
Tetrahydrofuran	20	ND	21	105	37 - 143
Toluene	20	ND	20	100	77 - 142
Trans-1,2-Dichloroethylene	20	ND	19	95	79 - 139
Trichloroethylene	20	ND	19	95	65 - 143
Trichlorofluoromethane	20	ND	22	110	58 - 161
Vinyl Acetate	20	ND	20	100	22 - 173
Vinyl Chloride	20	ND	21	105	68 - 139
c-1,3-dichloropropene	20	ND	20	100	51 - 144
cis-1,2-Dichloroethylene	20	ND	19	95	59 - 154
t-1,3-Dichloropropene	20	ND	21	105	47 - 145

Comments:

Sample ID: AB32123

PARAMETER	MSD SPIKE ADDED	MSD CONCENTRATION ug/L	MSD % REC	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	20	100	0	40
1,1,1-Trichloroethane	20	21	105	5	16
1,1,2,2-Tetrachloroethane	20	20	100	0	40
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	21	105	5	40
1,1,2-Trichloroethane	20	20	100	0	40
1,1-Dichloroethylene	20	20	100	5	35
1,1-Dichloropropene	20	19	95	5	40
1,1-dichloroethane	20	20	100	0	40
1,2,3-Trichlorobenzene	20	19	95	5	40
1,2,3-Trichloropropane	20	20	100	5	40
1,2,4-Trichlorobenzene	20	19	95	5	40
1,2,4-Trimethylbenzene	20	20	100	5	40
1,2-Dibromo-3-Chloropropane	20	17	85	6	40
1,2-Dibromoethane	20	20	100	11	40
1,2-Dichlorobenzene	20	19	95	0	40
1,2-Dichloroethane	20	21	105	0	23
1,2-Dichloropropane	20	19	95	0	40
1,3,5-Trimethylbenzene	20	20	100	5	40
1,3-Dichlorobenzene	20	19	95	0	40
1,3-Dichloropropane	20	19	95	0	40
1,4-Dichlorobenzene	20	19	95	5	21
2,2-Dichloropropane	20	20	100	0	40
2-Butanone (MEK)	20	14	70	7	40
2-Chlorotoluene	20	19	95	0	40
2-Hexanone	20	16	80	6	40
2-Propanone (acetone)	20	10	50	0	40
4-Chlorotoluene	20	19	95	0	40
4-Methyl-2-Pentanone(MIBK)	20	21	105	5	40
Acrylonitrile	20	22	110	0	40
Benzene	20	20	100	5	14
Bromobenzene	20	19	95	0	40
Bromochloromethane	20	21	105	5	40
Bromodichloromethane	20	20	100	0	21
Bromoform	20	19	95	0	40
Bromomethane	20	22	110	5	40
Carbon Disulfide	20	19	95	0	40
Carbon tetrachloride	20	21	105	0	19
Chlorobenzene	20	19	95	0	40
Chloroethane	20	21	105	5	40
Chloroform	20	22	110	5	16
Chloromethane	20	20	100	5	40
Dibromochloromethane	20	21	105	5	36
Dibromomethane	20	19	95	0	40
Dichlorodifluoromethane	20	18	90	6	40
Ethyl Ether	20	21	105	5	40
Ethylbenzene	20	20	100	0	40
Hexachlorobutadiene	20	20	100	5	40
Isopropylbenzene	20	20	100	5	40
M/P Xylene	40	40	100	5	40
Methyl-t-Butyl Ether	20	20	100	0	40
Methylene Chloride	20	22	110	0	40
N-Butylbenzene	20	20	100	5	40
N-Propylbenzene	20	19	95	0	40

Naphthalene	20	18	90	0	40
Ortho Xylene	20	20	100	5	40
Para-Isopropyltoluene	20	20	100	5	40
Sec-Butylbenzene	20	20	100	5	40
Styrene	20	20	100	0	40
Tert-Butylbenzene	20	20	100	5	40
Tetrachloroethylene	20	19	95	5	40
Tetrahydrofuran	20	21	105	0	40
Toluene	20	20	100	0	40
Trans-1,2-Dichloroethylene	20	20	100	5	40
Trichloroethylene	20	19	95	0	22
Trichlorofluoromethane	20	23	115	4	40
Vinyl Acetate	20	21	105	5	40
Vinyl Chloride	20	22	110	5	19
c-1,3-dichloropropene	20	20	100	0	40
cis-1,2-Dichloroethylene	20	20	100	5	40
t-1,3-Dichloropropene	20	21	105	0	40

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32123

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,1,1,2-Tetrachloroethane	ND	ND	ND	30
1,1,1-Trichloroethane	ND	ND	ND	30
1,1,2,2-Tetrachloroethane	ND	ND	ND	30
1,1,2-Trichloro-1,2,2-Trifluoroeth	ND	ND	ND	30
1,1,2-Trichloroethane	ND	ND	ND	30
1,1-Dichloroethylene	ND	ND	ND	30
1,1-Dichloropropene	ND	ND	ND	30
1,1-dichloroethane	ND	ND	ND	30
1,2,3-Trichlorobenzene	ND	ND	ND	30
1,2,3-Trichloropropane	ND	ND	ND	30
1,2,4-Trichlorobenzene	ND	ND	ND	30
1,2,4-Trimethylbenzene	ND	ND	ND	30
1,2-Dibromo-3-Chloropropane	ND	ND	ND	30
1,2-Dibromoethane	ND	ND	ND	30
1,2-Dichlorobenzene	ND	ND	ND	30
1,2-Dichloroethane	ND	ND	ND	30
1,2-Dichloropropane	ND	ND	ND	30
1,3,5-Trimethylbenzene	ND	ND	ND	30
1,3-Dichlorobenzene	ND	ND	ND	30
1,3-Dichloropropane	ND	ND	ND	30
1,4-Dichlorobenzene	ND	ND	ND	30
2,2-Dichloropropane	ND	ND	ND	30
2-Butanone (MEK)	ND	ND	ND	30
2-Chlorotoluene	ND	ND	ND	30
2-Hexanone	ND	ND	ND	30
2-Propanone (acetone)	ND	ND	ND	30
4-Chlorotoluene	ND	ND	ND	30
4-Methyl-2-Pentanone(MIBK)	ND	ND	ND	30
Acrylonitrile	ND	ND	ND	30
Benzene	ND	ND	ND	30
Bromobenzene	ND	ND	ND	30
Bromochloromethane	ND	ND	ND	30
Bromodichloromethane	ND	ND	ND	30
Bromoform	ND	ND	ND	30
Bromomethane	ND	ND	ND	30
Carbon Disulfide	ND	ND	ND	30
Carbon tetrachloride	ND	ND	ND	30
Chlorobenzene	ND	ND	ND	30
Chloroethane	ND	ND	ND	30
Chloroform	ND	ND	ND	30
Chloromethane	ND	ND	ND	30
Dibromochloromethane	ND	ND	ND	30
Dibromomethane	ND	ND	ND	30
Dichlorodifluoromethane	ND	ND	ND	30
Ethyl Ether	ND	ND	ND	30
Ethylbenzene	ND	ND	ND	30
Hexachlorobutadiene	ND	ND	ND	30
Isopropylbenzene	ND	ND	ND	30
M/P Xylene	ND	ND	ND	30

Methyl-t-Butyl Ether	ND	ND	ND	30
Methylene Chloride	ND	ND	ND	30
N-Butylbenzene	ND	ND	ND	30
N-Propylbenzene	ND	ND	ND	30
Naphthalene	ND	ND	ND	30
Ortho Xylene	ND	ND	ND	30
Para-Isopropyltoluene	ND	ND	ND	30
Sec-Butylbenzene	ND	ND	ND	30
Styrene	ND	ND	ND	30
Tert-Butylbenzene	ND	ND	ND	30
Tetrachloroethylene	ND	ND	ND	30
Tetrahydrofuran	ND	ND	ND	30
Toluene	ND	ND	ND	30
Trans-1,2-Dichloroethylene	ND	ND	ND	30
Trichloroethylene	ND	ND	ND	30
Trichlorofluoromethane	ND	ND	ND	30
Vinyl Acetate	ND	ND	ND	30
Vinyl Chloride	ND	ND	ND	30
c-1,3-dichloropropene	ND	ND	ND	30
cis-1,2-Dichloroethylene	ND	ND	ND	30
t-1,3-Dichloropropene	ND	ND	ND	30

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/mL	LFB RESULT ug/mL	LFB RECOVERY %	QC LIMITS %
1,1,1,2-Tetrachloroethane	20	20	100	79 - 136
1,1,1-Trichloroethane	20	21	105	75 - 146
1,1,2,2-Tetrachloroethane	20	19	95	62 - 141
1,1,2-Trichloro-1,2,2-Trifluoroeth	20	21	105	56 - 130
1,1,2-Trichloroethane	20	20	100	75 - 138
1,1-Dichloroethylene	20	20	100	75 - 136
1,1-Dichloropropene	20	19	95	77 - 137
1,1-dichloroethane	20	20	100	76 - 142
1,2,3-Trichlorobenzene	20	19	95	64 - 143
1,2,3-Trichloropropane	20	19	95	66 - 133
1,2,4-Trichlorobenzene	20	18	90	80 - 131
1,2,4-Trimethylbenzene	20	20	100	74 - 155
1,2-Dibromo-3-Chloropropane	20	17	85	37 - 139
1,2-Dibromoethane	20	19	95	72 - 135
1,2-Dichlorobenzene	20	19	95	85 - 128
1,2-Dichloroethane	20	21	105	74 - 138
1,2-Dichloropropane	20	19	95	83 - 124
1,3,5-Trimethylbenzene	20	19	95	80 - 145
1,3-Dichlorobenzene	20	19	95	84 - 130
1,3-Dichloropropane	20	19	95	77 - 129
1,4-Dichlorobenzene	20	18	90	82 - 128
2,2-Dichloropropane	20	21	105	32 - 171
2-Butanone (MEK)	20	20	100	38 - 179
2-Chlorotoluene	20	18	90	78 - 134
2-Hexanone	20	20	100	45 - 158
2-Propanone (acetone)	20	19	95	14 - 209
4-Chlorotoluene	20	19	95	75 - 144
4-Methyl-2-Pentanone(MIBK)	20	21	105	40 - 144
Acrylonitrile	20	22	110	52 - 154
Benzene	20	20	100	83 - 130
Bromobenzene	20	19	95	85 - 126
Bromochloromethane	20	21	105	69 - 137
Bromodichloromethane	20	20	100	70 - 143
Bromoform	20	19	95	51 - 136
Bromomethane	20	21	105	65 - 140
Carbon Disulfide	20	20	100	68 - 140
Carbon tetrachloride	20	21	105	70 - 144
Chlorobenzene	20	19	95	84 - 131
Chloroethane	20	20	100	70 - 134
Chloroform	20	21	105	76 - 141
Chloromethane	20	19	95	63 - 123
Dibromochloromethane	20	20	100	39 - 154
Dibromomethane	20	19	95	79 - 124
Dichlorodifluoromethane	20	18	90	37 - 117
Ethyl Ether	20	21	105	67 - 140
Ethylbenzene	20	19	95	81 - 133
Hexachlorobutadiene	20	18	90	68 - 146
Isopropylbenzene	20	19	95	78 - 137
M/P Xylene	40	39	98	68 - 155
Methyl-t-Butyl Ether	20	20	100	63 - 144
Methylene Chloride	20	21	105	75 - 140
N-Butylbenzene	20	20	100	69 - 147

N-Propylbenzene	20	19	95	76 - 138
Naphthalene	20	18	90	53 - 155
Ortho Xylene	20	20	100	85 - 135
Para-Isopropyltoluene	20	19	95	77 - 141
Sec-Butylbenzene	20	19	95	80 - 141
Styrene	20	20	100	82 - 139
Tert-Butylbenzene	20	19	95	75 - 144
Tetrachloroethylene	20	19	95	32 - 173
Tetrahydrofuran	20	21	105	47 - 149
Toluene	20	20	100	85 - 134
Trans-1,2-Dichloroethylene	20	19	95	80 - 138
Trichloroethylene	20	19	95	76 - 135
Trichlorofluoromethane	20	22	110	60 - 149
Vinyl Acetate	20	20	100	38 - 187
Vinyl Chloride	20	22	110	66 - 133
c-1,3-dichloropropene	20	20	100	68 - 149
cis-1,2-Dichloroethylene	20	20	100	76 - 143
t-1,3-Dichloropropene	20	21	105	62 - 160

Comments:

LABORATORY FORTIFIED DUPLICATE (LFB Dup) RECOVERY

COMPOUND	LFB Dup CONCENTRATION ug/L	LFB Dup RECOVERY %	RPD %	QC LIMITS RPD
1,1,1,2-Tetrachloroethane	20	100	0	50
1,1,1-Trichloroethane	20	100	5	50
1,1,2,2-Tetrachloroethane	19	95	0	50
1,1,2-Trichloro-1,2,2-Trifluoroetha	20	100	5	50
1,1,2-Trichloroethane	20	100	0	50
1,1-Dichloroethylene	19	95	5	52
1,1-Dichloropropene	19	95	0	50
1,1-dichloroethane	20	100	0	50
1,2,3-Trichlorobenzene	19	95	0	50
1,2,3-Trichloropropane	20	100	5	50
1,2,4-Trichlorobenzene	19	95	5	50
1,2,4-Trimethylbenzene	20	100	0	50
1,2-Dibromo-3-Chloropropane	18	90	6	50
1,2-Dibromoethane	19	95	0	50
1,2-Dichlorobenzene	19	95	0	50
1,2-Dichloroethane	20	100	5	50
1,2-Dichloropropane	19	95	0	50
1,3,5-Trimethylbenzene	19	95	0	50
1,3-Dichlorobenzene	19	95	0	50
1,3-Dichloropropane	19	95	0	50
1,4-Dichlorobenzene	19	95	5	50
2,2-Dichloropropane	20	100	5	50
2-Butanone (MEK)	20	100	0	50
2-Chlorotoluene	19	95	5	50
2-Hexanone	20	100	0	50
2-Propanone (acetone)	19	95	0	50
4-Chlorotoluene	19	95	0	50
4-Methyl-2-Pentanone(MIBK)	20	100	5	50
Acrylonitrile	21	105	5	50
Benzene	20	100	0	50
Bromobenzene	19	95	0	50
Bromochloromethane	20	100	5	50
Bromodichloromethane	19	95	5	50
Bromoform	18	90	5	50
Bromomethane	21	105	0	50
Carbon Disulfide	19	95	5	50
Carbon tetrachloride	21	105	0	50
Chlorobenzene	19	95	0	34
Chloroethane	20	100	0	50
Chloroform	20	100	5	50
Chloromethane	19	95	0	50
Dibromochloromethane	20	100	0	50
Dibromomethane	19	95	0	50
Dichlorodifluoromethane	17	85	6	50
Ethyl Ether	21	105	0	50
Ethylbenzene	19	95	0	50
Hexachlorobutadiene	18	90	0	50
Isopropylbenzene	20	100	5	50
M/P Xylene	38	95	3	50
Methyl-t-Butyl Ether	20	100	0	50
Methylene Chloride	21	105	0	50
N-Butylbenzene	20	100	0	50
N-Propylbenzene	19	95	0	50
Naphthalene	18	90	0	50
Ortho Xylene	19	95	5	50

Para-Isopropyltoluene	20	100	5	50
Sec-Butylbenzene	20	100	5	50
Styrene	19	95	5	50
Tert-Butylbenzene	19	95	0	50
Tetrachloroethylene	19	95	0	50
Tetrahydrofuran	20	100	5	50
Toluene	20	100	0	50
Trans-1,2-Dichloroethylene	18	90	5	50
Trichloroethylene	19	95	0	27
Trichlorofluoromethane	21	105	5	50
Vinyl Acetate	19	95	5	50
Vinyl Chloride	21	105	5	50
c-1,3-dichloropropene	20	100	0	50
cis-1,2-Dichloroethylene	19	95	5	50
t-1,3-Dichloropropene	21	105	0	50

Samples in Batch: AB32123, AB32147

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

	Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
		12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
		12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓		12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
		12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
		12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
		12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
		12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓		12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
		12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
		12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
		12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
		12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓		12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
		12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
		12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
		~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
		12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓		12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
		12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ely	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Printed on 100% Recycled Paper

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 06, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: BNAs in Water
Analyst: Dan Boudreau

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-BNAW2.

Samples were prepared using separatory funnel liquid-liquid extraction. The samples were analyzed using high resolution capillary column chromatography and quadrapole mass spectrometry (GC/MS). The SOP for this method is based on the US EPA SW-846 Methods 3510C, 8270C, Method 625, and EIASOP-BNAGCMS7.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.06 07:15:18 -04'00'

Qualifiers: RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
NC = Not calculated since analyte concentration is ND.
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 5 times the concentration in the blank.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	2.5	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	**7.0**	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	5.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	2.5	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	2.5	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	10	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	76	12 - 74
Phenol-d6 (SS2)	51	6 - 52
Nitrobenzene-d5 (SS3)	84	32 - 114
2-Fluorobiphenyl (SS4)	86	33 - 119
2,4,6-Tribromophenol (SS5)	148	30 - 144
p-Terphenyl-d14 (SS6)	101	40 - 132

Comments: The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitoquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
88-74-4	2-Nitroaniline	ND	2.5	
88-75-5	2-Nitrophenol	ND	2.5	
108-39-4/106-44-	3&4-Methylphenol	ND	5.0	
91-94-1	3,3'-Dichlorobenzidine	ND	2.5	
56-49-5	3-Methylcholanthrene	ND	2.5	
99-09-2	3-Nitroaniline	ND	2.5	
534-52-1	4,6-Dinitro-2-methylphenol	ND	2.5	
101-55-3	4-Bromophenyl-phenylether	ND	2.5	
59-50-7	4-Chloro-3-methylphenol	ND	2.5	
106-47-8	4-Chloroaniline	ND	2.5	
7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	5.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
50-32-8	Benzo(a)pyrene	ND	2.5	
205-99-2	Benzo(b)fluoranthene	ND	2.5	
191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	2.5	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	2.5	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Blank Results

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	10	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,6-Tribromophenol (SS5)	140	34 - 122
2-Fluorobiphenyl (SS4)	79	46 - 112
2-Fluorophenol (SS1)	77	23 - 74
Nitrobenzene-d5 (SS3)	79	33 - 122
Phenol-d6 (SS2)	52	13 - 53
p-Terphenyl-d14 (SS6)	98	52 - 126

Comments: The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitoquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID: 12060001-0026
Date of Collection: 8/22/2012
Date of Extraction: 8/28/12
Date of Analysis: 8/28/12
Dry Weight Extracted: N/A
Wet Weight Extracted: N/A

Lab Sample ID: AB32147
Matrix Water
Volume Purged: 1000 mL
Percent Solids: N/A
Extract Dilution: 1
pH: N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.5	
120-82-1	1,2,4-Trichlorobenzene	ND	2.5	
95-50-1	1,2-Dichlorobenzene	ND	2.5	
541-73-1	1,3-Dichlorobenzene	ND	2.5	
99-65-0	1,3-Dinitrobenzene	ND	2.5	
106-46-7	1,4-Dichlorobenzene	ND	2.5	
130-15-4	1,4-Naphthoquinone	ND	2.5	
90-12-0	1-Methylnaphthalene	ND	2.5	
108-60-1	2,2'-oxybis(1-chloropropane)	ND	2.5	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	2.5	
95-95-4	2,4,5-Trichlorophenol	ND	2.5	
88-06-2	2,4,6-Trichlorophenol	ND	2.5	
120-83-2	2,4-Dichlorophenol	ND	2.5	
51-28-5	2,4-Dinitrophenol	ND	10	
121-14-2	2,4-Dinitrotoluene	ND	2.5	
105-67-9	2,4-dimethylphenol	ND	2.5	
87-65-0	2,6-Dichlorophenol	ND	2.5	
606-20-2	2,6-Dinitrotoluene	ND	2.5	
91-58-7	2-Chloronaphthalene	ND	2.5	
95-57-8	2-Chlorophenol	ND	2.5	
91-57-6	2-Methylnaphthalene	ND	2.5	
95-48-7	2-Methylphenol	ND	2.5	
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7005-72-3	4-Chlorophenyl-phenylether	ND	2.5	
100-01-6	4-Nitroaniline	ND	2.5	
100-02-7	4-Nitrophenol	ND	5.0	
56-57-5	4-nitroquinoline-1-oxide	ND	5.0	
83-32-9	Acenaphthene	ND	2.5	
208-96-8	Acenaphthylene	ND	2.5	
98-86-2	Acetophenone	ND	2.5	
62-53-3	Aniline	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID:	12060001-0026	Lab Sample ID:	AB32147
Date of Collection:	8/22/2012	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
120-12-7	Anthracene	ND	2.5	
140-57-8	Aramite	ND	2.5	
103-33-3	Azobenzene	ND	2.5	
92-87-5	Benzidine	ND	2.5	
56-55-3	Benzo(a)anthracene	ND	2.5	
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191-24-2	Benzo(g,h,i)perylene	ND	2.5	
207-08-9	Benzo(k)fluoranthene	ND	2.5	
65-85-0	Benzoic acid	ND	2.5	
100-51-6	Benzyl alcohol	ND	2.5	
111-44-4	Bis(2-Chloroethyl)ether	ND	2.5	
117-81-7	Bis(2-ethylhexyl)phthalate	ND	2.5	
85-68-7	Butylbenzylphthalate	ND	2.5	
86-74-8	Carbazole	ND	2.5	
510-15-6	Chlorobenzilate	ND	2.5	
218-01-9	Chrysene	ND	2.5	
84-74-2	Di-n-butylphthalate	ND	2.5	
117-84-0	Di-n-octyl phthalate	ND	2.5	
53-70-3	Dibenz(a,h)anthracene	ND	2.5	
132-64-9	Dibenzofuran	ND	2.5	
84-66-2	Diethylphthalate	ND	2.5	
131-11-3	Dimethyl phthalate	ND	2.5	
88-85-7	Dinoseb	ND	2.5	
62-50-0	Ethyl methanesulfonate	ND	2.5	
206-44-0	Fluoranthene	ND	2.5	
86-73-7	Fluorene	ND	2.5	
118-74-1	Hexachlorobenzene	ND	2.5	
87-68-3	Hexachlorobutadiene	ND	2.5	
77-47-4	Hexachlorocyclopentadiene	ND	2.5	
67-72-1	Hexachloroethane	ND	2.5	
1888-71-7	Hexachloropropene	ND	2.5	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	2.5	
465-73-6	Isodrin	ND	2.5	
78-59-1	Isophorone	ND	2.5	
120-58-1	Isosafrole	ND	2.5	
143-50-0	Kepone	ND	2.5	
66-27-3	Methyl methanesulfonate	ND	2.5	
86-30-6	N-Nitrosodiphenylamine	ND	2.5	
621-64-7	N-nitroso-di-n-propylamine	ND	2.5	

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

BNAs in Water

Client Sample ID:	12060001-0026	Lab Sample ID:	AB32147
Date of Collection:	8/22/2012	Matrix	Water
Date of Extraction:	8/28/12	Volume Purged:	1000 mL
Date of Analysis:	8/28/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
62-75-9	N-nitrosodimethylamine	ND	2.5	
91-20-3	Naphthalene	ND	2.5	
98-95-3	Nitrobenzene	ND	2.5	
608-93-5	Pentachlorobenzene	ND	2.5	
82-68-8	Pentachloronitrobenzene	ND	2.5	
87-86-5	Pentachlorophenol	ND	10	
62-44-2	Phenacetin	ND	2.5	
85-01-8	Phenanthrene	ND	2.5	
108-95-2	Phenol	ND	2.5	
129-00-0	Pyrene	ND	2.5	
110-86-1	Pyridine	ND	2.5	
94-59-7	Safrole	ND	2.5	
111-91-1	bis(-2-Chloroethoxy)methane	ND	2.5	

Surrogate Compounds	Recoveries (%)	QC Ranges
2-Fluorophenol (SS1)	78	12 - 74
Phenol-d6 (SS2)	52	6 - 52
Nitrobenzene-d5 (SS3)	84	32 - 114
2-Fluorobiphenyl (SS4)	87	33 - 119
2,4,6-Tribromophenol (SS5)	145	30 - 144
p-Terphenyl-d14 (SS6)	100	40 - 132

Comments: The reporting level for 4-nitrophenol, 2,4-dinitrophenol, pentachlorophenol, and 4-nitoquinoline-1-oxide have been raised to reflect the calibration range of the method.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

MATRIX SPIKE (MS)

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32147

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
1,2,4,5-Tetrachlorobenzene	40	ND	34	85	50 - 104
1,2,4-Trichlorobenzene	40	ND	31	78	31 - 106
1,2-Dichlorobenzene	40	ND	30	75	26 - 103
1,3-Dichlorobenzene	40	ND	29	73	20 - 100
1,3-Dinitrobenzene	40	ND	36	90	31 - 152
1,4-Dichlorobenzene	40	ND	29	73	21 - 100
1,4-Naphthoquinone	40	ND	35	88	52 - 110
1-Methylnaphthalene	40	ND	33	83	54 - 110
2,2'-oxybis(1-chloropropane)	40	ND	33	83	43 - 124
2,3,4,6-Tetrachlorophenol	40	ND	44	110	63 - 127
2,4,5-Trichlorophenol	40	ND	41	103	62 - 125
2,4,6-Trichlorophenol	40	ND	37	93	67 - 119
2,4-Dichlorophenol	40	ND	36	90	64 - 113
2,4-Dinitrophenol	40	ND	36	90	28 - 139
2,4-Dinitrotoluene	40	ND	38	95	64 - 131
2,4-dimethylphenol	40	ND	34	85	21 - 123
2,6-Dichlorophenol	40	ND	35	88	63 - 111
2,6-Dinitrotoluene	40	ND	37	93	65 - 127
2-Chloronaphthalene	40	ND	34	85	50 - 120
2-Chlorophenol	40	ND	32	80	57 - 105
2-Methylnaphthalene	40	ND	33	83	53 - 107
2-Methylphenol	40	ND	31	78	47 - 105
2-Nitroaniline	40	ND	36	90	58 - 144
2-Nitrophenol	40	ND	34	85	59 - 124
3&4-Methylphenol	80	ND	60	75	13 - 144
3,3'-Dichlorobenzidine	40	ND	34	85	5.0 - 163
3-Methylcholanthrene	40	ND	35	88	23 - 166
3-Nitroaniline	40	ND	33	83	45 - 129
4,6-Dinitro-2-methylphenol	40	ND	37	93	45 - 128
4-Bromophenyl-phenylether	40	ND	35	88	63 - 121
4-Chloro-3-methylphenol	40	7.0	42	88	65 - 119
4-Chloroaniline	40	ND	31	78	7.8 - 122
4-Chlorophenyl-phenylether	40	ND	34	85	61 - 116
4-Nitroaniline	40	ND	37	93	41 - 139
4-Nitrophenol	40	ND	22	55	5.8 - 109
4-nitroquinoline-1-oxide	40	ND	31	78	38 - 108
Acenaphthene	40	ND	34	85	61 - 113
Acenaphthylene	40	ND	35	88	62 - 113
Acetophenone	40	ND	34	85	61 - 113
Aniline	40	ND	25	63	17 - 109
Anthracene	40	ND	35	88	68 - 121
Aramite	40	ND	37	93	24 - 158
Azobenzene	40	ND	33	83	60 - 123
Benzidine	40	ND	6.3	16	10 - 80
Benzo(a)anthracene	40	ND	36	90	69 - 119
Benzo(a)pyrene	40	ND	37	93	57 - 132
Benzo(b)fluoranthene	40	ND	38	95	55 - 139
Benzo(g,h,i)perylene	40	ND	36	90	60 - 130

Benzo(k)fluoranthene	40	ND	37	93	62 - 126
Benzoic acid	40	ND	16	40	3.7 - 86
Benzyl alcohol	40	ND	28	70	23 - 133
Bis(2-Chloroethyl)ether	40	ND	33	83	57 - 111
Bis(2-ethylhexyl)phthalate	40	ND	36	90	37 - 155
Butylbenzylphthalate	40	ND	36	90	64 - 133
Carbazole	40	ND	37	93	62 - 128
Chlorobenzilate	40	ND	39	98	55 - 146
Chrysene	40	ND	36	90	71 - 110
Di-n-butylphthalate	40	ND	38	95	68 - 135
Di-n-octyl phthalate	40	ND	37	93	35 - 160
Dibenz(a,h)anthracene	40	ND	36	90	58 - 137
Dibenzofuran	40	ND	35	88	62 - 113
Diethylphthalate	40	ND	37	93	56 - 131
Dimethyl phthalate	40	ND	36	90	64 - 121
Dinoseb	40	ND	38	95	46 - 121
Ethyl methanesulfonate	40	ND	33	83	56 - 117
Fluoranthene	40	ND	37	93	64 - 128
Fluorene	40	ND	35	88	63 - 119
Hexachlorobenzene	40	ND	35	88	62 - 118
Hexachlorobutadiene	40	ND	29	73	9.5 - 107
Hexachlorocyclopentadiene	40	ND	33	83	11 - 117
Hexachloroethane	40	ND	26	65	6.9 - 101
Hexachloropropene	40	ND	29	73	8.1 - 110
Indeno(1,2,3-cd)pyrene	40	ND	38	95	62 - 129
Isodrin	40	ND	35	88	63 - 119
Isophorone	40	ND	35	88	60 - 130
Isosafrole	40	ND	34	85	59 - 112
Kepone	40	ND	9.6	24	8.3 - 117
Methyl methanesulfonate	40	ND	29	73	37 - 98
N-Nitrosodiphenylamine	40	ND	34	85	58 - 117
N-nitroso-di-n-propylamine	40	ND	33	83	58 - 124
N-nitrosodimethylamine	40	ND	23	58	35 - 72
Naphthalene	40	ND	33	83	47 - 110
Nitrobenzene	40	ND	33	83	58 - 115
Pentachlorobenzene	40	ND	36	90	61 - 112
Pentachloronitrobenzene	40	ND	36	90	65 - 127
Pentachlorophenol	40	ND	75	188	11 - 167
Phenacetin	40	ND	37	93	55 - 143
Phenanthrene	40	ND	36	90	63 - 122
Phenol	40	ND	17	43	20 - 64
Pyrene	40	ND	38	95	68 - 117
Pyridine	40	ND	20	50	5.3 - 85
Safrole	40	ND	35	88	56 - 117
bis(-2-Chloroethoxy)methane	40	ND	34	85	64 - 114

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32123

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
1,2,4,5-Tetrachlorobenzene	ND	ND	ND	50
1,2,4-Trichlorobenzene	ND	ND	ND	50
1,2-Dichlorobenzene	ND	ND	ND	50
1,3-Dichlorobenzene	ND	ND	ND	50
1,3-Dinitrobenzene	ND	ND	ND	50
1,4-Dichlorobenzene	ND	ND	ND	50
1,4-Naphthoquinone	ND	ND	ND	50
1-Methylnaphthalene	ND	ND	ND	50
2,2'-oxybis(1-chloropropane)	ND	ND	ND	50
2,3,4,6-Tetrachlorophenol	ND	ND	ND	50
2,4,5-Trichlorophenol	ND	ND	ND	50
2,4,6-Trichlorophenol	ND	ND	ND	50
2,4-Dichlorophenol	ND	ND	ND	50
2,4-Dinitrophenol	ND	ND	ND	50
2,4-Dinitrotoluene	ND	ND	ND	50
2,4-dimethylphenol	ND	ND	ND	50
2,6-Dichlorophenol	ND	ND	ND	50
2,6-Dinitrotoluene	ND	ND	ND	50
2-Chloronaphthalene	ND	ND	ND	50
2-Chlorophenol	ND	ND	ND	50
2-Methylnaphthalene	ND	ND	ND	50
2-Methylphenol	ND	ND	ND	50
2-Nitroaniline	ND	ND	ND	50
2-Nitrophenol	ND	ND	ND	50
3&4-Methylphenol	ND	ND	ND	50
3,3'-Dichlorobenzidine	ND	ND	ND	50
3-Methylcholanthrene	ND	ND	ND	50
3-Nitroaniline	ND	ND	ND	50
4,6-Dinitro-2-methylphenol	ND	ND	ND	50
4-Bromophenyl-phenylether	ND	ND	ND	50
4-Chloro-3-methylphenol	7.0	6.9	1.4	50
4-Chloroaniline	ND	ND	ND	50
4-Chlorophenyl-phenylether	ND	ND	ND	50
4-Nitroaniline	ND	ND	ND	50
4-Nitrophenol	ND	ND	ND	50
4-nitroquinoline-1-oxide	ND	ND	ND	50
Acenaphthene	ND	ND	ND	50
Acenaphthylene	ND	ND	ND	50
Acetophenone	ND	ND	ND	50
Aniline	ND	ND	ND	50
Anthracene	ND	ND	ND	50
Aramite	ND	ND	ND	50
Azobenzene	ND	ND	ND	50
Benzidine	ND	ND	ND	50
Benzo(a)anthracene	ND	ND	ND	50
Benzo(a)pyrene	ND	ND	ND	50
Benzo(b)fluoranthene	ND	ND	ND	50
Benzo(g,h,i)perylene	ND	ND	ND	50
Benzo(k)fluoranthene	ND	ND	ND	50

Benzoic acid	ND	ND	ND	50
Benzyl alcohol	ND	ND	ND	50
Bis(2-Chloroethyl)ether	ND	ND	ND	50
Bis(2-ethylhexyl)phthalate	ND	ND	ND	50
Butylbenzylphthalate	ND	ND	ND	50
Carbazole	ND	ND	ND	50
Chlorobenzilate	ND	ND	ND	50
Chrysene	ND	ND	ND	50
Di-n-butylphthalate	ND	ND	ND	50
Di-n-octyl phthalate	ND	ND	ND	50
Dibenz(a,h)anthracene	ND	ND	ND	50
Dibenzofuran	ND	ND	ND	50
Diethylphthalate	ND	ND	ND	50
Dimethyl phthalate	ND	ND	ND	50
Dinoseb	ND	ND	ND	50
Ethyl methanesulfonate	ND	ND	ND	50
Fluoranthene	ND	ND	ND	50
Fluorene	ND	ND	ND	50
Hexachlorobenzene	ND	ND	ND	50
Hexachlorobutadiene	ND	ND	ND	50
Hexachlorocyclopentadiene	ND	ND	ND	50
Hexachloroethane	ND	ND	ND	50
Hexachloropropene	ND	ND	ND	50
Indeno(1,2,3-cd)pyrene	ND	ND	ND	50
Isodrin	ND	ND	ND	50
Isophorone	ND	ND	ND	50
Isosafrole	ND	ND	ND	50
Kepone	ND	ND	ND	50
Methyl methanesulfonate	ND	ND	ND	50
N-Nitrosodiphenylamine	ND	ND	ND	50
N-nitroso-di-n-propylamine	ND	ND	ND	50
N-nitrosodimethylamine	ND	ND	ND	50
Naphthalene	ND	ND	ND	50
Nitrobenzene	ND	ND	ND	50
Pentachlorobenzene	ND	ND	ND	50
Pentachloronitrobenzene	ND	ND	ND	50
Pentachlorophenol	ND	ND	ND	50
Phenacetin	ND	ND	ND	50
Phenanthrene	ND	ND	ND	50
Phenol	ND	ND	ND	50
Pyrene	ND	ND	ND	50
Pyridine	ND	ND	ND	50
Safrole	ND	ND	ND	50
bis(-2-Chloroethoxy)methane	ND	ND	ND	50

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

PARAMETER	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
1,2,4,5-Tetrachlorobenzene	40	29.9	75	20 - 104
1,2,4-Trichlorobenzene	40	28.0	70	11 - 97
1,2-Dichlorobenzene	40	27.3	68	11 - 93
1,3-Dichlorobenzene	40	25.2	63	8.3 - 86
1,3-Dinitrobenzene	40	37.2	93	58 - 122
1,4-Dichlorobenzene	40	26.0	65	11 - 86
1,4-Naphthoquinone	40	37.4	94	19 - 133
1-Methylnaphthalene	40	32.7	82	30 - 111
2,2'-oxybis(1-chloropropane)	40	33.9	85	37 - 119
2,3,4,6-Tetrachlorophenol	40	46.0	115	52 - 128
2,4,5-Trichlorophenol	40	42.8	107	54 - 121
2,4,6-Trichlorophenol	40	37.5	94	56 - 120
2,4-Dichlorophenol	40	36.7	92	55 - 112
2,4-Dinitrophenol	40	34.3	86	15 - 134
2,4-Dinitrotoluene	40	39.4	99	59 - 130
2,4-dimethylphenol	40	35.5	89	38 - 117
2,6-Dichlorophenol	40	35.4	89	52 - 112
2,6-Dinitrotoluene	40	37.7	94	56 - 129
2-Chloronaphthalene	40	32.4	81	29 - 118
2-Chlorophenol	40	33.7	84	49 - 104
2-Methylnaphthalene	40	31.4	79	27 - 108
2-Methylphenol	40	33.8	85	41 - 109
2-Nitroaniline	40	37.2	93	48 - 150
2-Nitrophenol	40	35.0	88	53 - 117
3&4-Methylphenol	80	63.8	80	18 - 127
3,3'-Dichlorobenzidine	40	35.4	89	52 - 129
3-Methylcholanthrene	40	35.1	88	51 - 119
3-Nitroaniline	40	35.6	89	53 - 128
4,6-Dinitro-2-methylphenol	40	37.5	94	42 - 121
4-Bromophenyl-phenylether	40	36.2	91	51 - 119
4-Chloro-3-methylphenol	40	38.8	97	51 - 128
4-Chloroaniline	40	33.2	83	37 - 115
4-Chlorophenyl-phenylether	40	35.5	89	47 - 116
4-Nitroaniline	40	37.8	95	44 - 139
4-Nitrophenol	40	22.5	56	22 - 84
4-nitroquinoline-1-oxide	40	31.9	80	30 - 117
Acenaphthene	40	34.2	86	47 - 111
Acenaphthylene	40	34.7	87	50 - 112
Acetophenone	40	35.3	88	35 - 134
Aniline	40	26.8	67	33 - 102
Anthracene	40	35.8	90	58 - 124
Aramite	40	37.1	93	37 - 126
Azobenzene	40	34.0	85	54 - 120
Benzidine	40	13.1	33	10 - 85
Benzo(a)anthracene	40	36.6	92	62 - 120
Benzo(a)pyrene	40	37.0	93	56 - 128
Benzo(b)fluoranthene	40	36.8	92	50 - 135
Benzo(g,h,i)perylene	40	35.5	89	53 - 126
Benzo(k)fluoranthene	40	39.2	98	55 - 126
Benzoic acid	40	15.5	39	17 - 77
Benzyl alcohol	40	32.0	80	31 - 121
Bis(2-Chloroethyl)ether	40	34.4	86	52 - 106

Bis(2-ethylhexyl)phthalate	40	36.6	92	63 - 130
Butylbenzylphthalate	40	36.6	92	60 - 133
Carbazole	40	37.1	93	57 - 127
Chlorobenzilate	40	38.9	97	60 - 131
Chrysene	40	36.8	92	60 - 116
Di-n-butylphthalate	40	37.2	93	60 - 133
Di-n-octyl phthalate	40	37.8	95	48 - 133
Dibenz(a,h)anthracene	40	35.7	89	55 - 130
Dibenzofuran	40	35.1	88	51 - 110
Diethylphthalate	40	37.8	95	38 - 146
Dimethyl phthalate	40	37.4	94	58 - 121
Dinoseb	40	38.8	97	19 - 78
Ethyl methanesulfonate	40	34.4	86	48 - 115
Fluoranthene	40	37.0	93	57 - 128
Fluorene	40	35.6	89	53 - 116
Hexachlorobenzene	40	36.2	91	55 - 116
Hexachlorobutadiene	40	23.6	59	10 - 92
Hexachlorocyclopentadiene	40	26.2	66	1.5 - 108
Hexachloroethane	40	22.3	56	11 - 83
Hexachloropropene	40	24.0	60	13 - 96
Indeno(1,2,3-cd)pyrene	40	36.7	92	54 - 129
Isodrin	40	35.7	89	53 - 124
Isophorone	40	35.5	89	53 - 128
Isosafrole	40	33.9	85	41 - 112
Kepone	40	5.7	14	10 - 140
Methyl methanesulfonate	40	29.8	75	25 - 104
N-Nitrosodiphenylamine	40	35.1	88	56 - 115
N-nitroso-di-n-propylamine	40	34.6	87	47 - 126
N-nitrosodimethylamine	40	24.0	60	29 - 76
Naphthalene	40	32.1	80	31 - 104
Nitrobenzene	40	33.6	84	53 - 108
Pentachlorobenzene	40	34.9	87	44 - 110
Pentachloronitrobenzene	40	37.1	93	57 - 127
Pentachlorophenol	40	76.2	191	31 - 121
Phenacetin	40	37.9	95	51 - 142
Phenanthrene	40	36.2	91	56 - 119
Phenol	40	18.7	47	18 - 69
Pyrene	40	37.7	94	62 - 117
Pyridine	40	21.9	55	22 - 75
Safrole	40	34.7	87	49 - 114
bis(-2-Chloroethoxy)methane	40	34.7	87	56 - 112

Comments:

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 4 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	~~12060001-0016~~	~~SS-06C~~	~~% SOLIDS~~	~~SOIL~~	~~8/22/2012~~	~~13:15~~	~~1~~	~~NONE~~	~~N~~
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	~~12060001-0021~~	~~SS-09A~~	~~SVOC~~	~~SOIL~~	~~8/22/2012~~	~~10:33~~	~~1~~	~~none~~	~~n~~
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
✓	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
✓	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 7 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	~~12060001-0074~~	~~SS-26C~~	~~PCB MS~~	~~SOIL~~	~~8/21/2012~~	~~10:42~~	~~1~~	~~NONE~~	~~N~~
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 15 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 10, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number: 12080053
Project: Kiley Barrel Allen St - Somerville, MA
Analysis: PCBs in Water Low Level
Analyst: Paul Carroll

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Sample preparation and analysis was done following the EPA Region I SOP, EIASOP-PESWALL6.

The SOP is based on "Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, Method 608 - Organochlorine Pesticides and PCBS".

The analysis was carried out using high resolution capillary column chromatography. The 30 meter dual capillary system consists of J&W DB-5 and J&W DB-1701 columns both with a 0.25 mm ID.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340 .

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.10 15:46:01 -04'00'

Qualifiers:

RL = Reporting limit
ND = Not Detected above Reporting limit
NA = Not Applicable due to high sample dilutions or sample interferences
J = Estimated value
E = Estimated value exceeds the calibration range
L = Estimated value is below the calibration range
B = Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
P = The confirmation value exceeded 35% difference and is less than 100%. The lower value is reported.
C = The identification has been confirmed by GC/MS.
R = No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs in Water Low Level

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Extraction:	8/27/12	Final Volume:	5 mL
Date of Analysis:	8/30/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	5.6
Volume Extracted:	1020 mL	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	68	40 - 106
Decachlorobiphenyl	82	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

PCBs in Water Low Level

Client Sample ID:	12060001-0026		Lab Sample ID:	AB32147
Date of Collection:	8/22/2012		Matrix	Water
Date of Extraction:	8/27/12		Final Volume:	5 mL
Date of Analysis:	8/30/12		Percent Solids:	N/A
Dry Weight Extracted:	N/A		Extract Dilution:	1
Wet Weight Extracted:	N/A		pH:	6.0
Volume Extracted:	1000 mL		GPC Factor:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	60	40 - 106
Decachlorobiphenyl	84	27 - 128

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Blank for PCBs Water

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Extraction:	8/27/12	Final Volume:	5 mL
Date of Analysis:	8/29/12	Percent Solids:	N/A
Dry Weight Extracted:	N/A	Extract Dilution:	1
Wet Weight Extracted:	N/A	pH:	5.9
Volume Extracted:	1000 mL	GPC Factor:	N/A

CAS Number	Compound	Concentration ug/L	RL ug/L	Qualifier
12674-11-2	Aroclor-1016	ND	0.50	
11104-28-2	Aroclor-1221	ND	0.50	
11141-16-5	Aroclor-1232	ND	0.50	
53469-21-9	Aroclor-1242	ND	0.50	
12672-29-6	Aroclor-1248	ND	0.50	
11097-69-1	Aroclor-1254	ND	0.50	
11096-82-5	Aroclor-1260	ND	0.50	
11100-14-4	Aroclor-1262	ND	0.50	
37324-23-5	Aroclor-1268	ND	0.50	

Surrogate Compounds	Recoveries (%)	QC Ranges
2,4,5,6-Tetrachloro-m-xylene	68	40 - 106
Decachlorobiphenyl	76	27 - 128

Comments:

MATRIX SPIKE (MS) RECOVERY

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32147

PARAMETER	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
Aroclor-1254	3.0	ND	3.1	103	

Comments:

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32123

PARAMETER	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS
Aroclor-1016	ND	ND		50
Aroclor-1221	ND	ND		50
Aroclor-1232	ND	ND		50
Aroclor-1242	ND	ND		50
Aroclor-1248	ND	ND		50
Aroclor-1254	ND	ND		50
Aroclor-1260	ND	ND		50
Aroclor-1262	ND	ND		50
Aroclor-1268	ND	ND		50

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

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USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
✓	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
✓	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
✓	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	~~12060001-0026~~	~~RB-02~~	~~PCB~~	~~Rinsate water~~	~~8/22/2012~~	~~13:15~~	~~2~~	~~None~~	~~N~~
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Sing	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

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USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
✓	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
✓	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001

Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
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USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

EPA
Region 1, New England

United States Environmental Protection Agency
Office of Environmental Measurement & Evaluation
11 Technology Drive
North Chelmsford, MA 01863-2431

Laboratory Report

September 20, 2012

Cosmo Caterino - Mail Code OSRR02-2
US EPA New England R1

Project Number:	12080053
Project:	Kiley Barrel Allen St - Somerville, MA
Analysis:	Total Recoverable Metals in Water by ICP
EPA Chemist:	Janet Paquin

Analytical Procedure:

All samples were received and logged in by the laboratory according to the USEPA New England Laboratory SOP for Sample Log-in.

Samples were analyzed following the EPA Region I SOP, EIASOP-INGDVICP1.

Samples were prepared following the EPA Region I SOP, EIASOP-INGMETALSPREP7

The sample preparation and analysis SOP's are based on Methods 3010A or 3005A and 6010B as stated in "Test Methods for Evaluating Solid Waste, 3rd ed., Final Update III, 7/92 and 12/96."

The samples were analyzed using a Perkin Elmer 4300 Dual View Inductively Coupled Plasma - Optical Emission Spectrometer.

Samples were prepared and analyzed by ESAT contractors working at the USEPA New England Laboratory.

Date Samples Received by the Laboratory: 08/23/2012

Data were reviewed in accordance with the internal verification procedures described in the EPA New England OEME Chemistry QA Plan.

Results relate only to the items tested or to the samples as received by the Laboratory. This analytical report shall not be reproduced except in full, without written approval of the laboratory.

If you have any questions please call me at 617-918-8340

Sincerely,

Digitally signed by Dan Boudreau
DN: cn=Dan Boudreau, o=EPA,
ou=EIA,
email=boudreau.dan@epa.gov, c=US
Date: 2012.09.20 16:54:53 -04'00'

Laboratory Qualifiers:

RL	Reporting limit
ND	Not Detected above reporting limit
NA	Not Applicable
NC	Not calculated since analyte concentration is ND
J1	Estimated value due to MS recovery outside accceptance criteria
J2	Estimated value due to LFB result outside acceptance criteria
J3	Estimated value due to RPD result outside acceptance criteria
J4	Estimated value due to LCS result outside acceptance criteria
B	Analyte is associated with the lab blank or trip blank contamination. Values are qualified when the observed concentration of the contamination in the sample extract is less than 10 times the concentration in the blank.
R	No recovery was calculated since the analyte concentration is greater than four times the spike level.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Total Recoverable Metals in Water by ICP

Client Sample ID:	12060001-0002	Lab Sample ID:	AB32123
Date of Collection:	8/21/2012	Matrix	Water
Date of Digestion:	9/6/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	50 mL	pH:	<2

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	**100**	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

Comments: Thallium reported from 9/12/2012 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Total Recoverable Metals in Water by ICP

Client Sample ID:	12060001-0026	Lab Sample ID:	AB32147
Date of Collection:	8/22/2012	Matrix	Water
Date of Digestion:	9/6/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	50 mL	pH:	<2

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	ND	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

Comments: Thallium reported from 9/12/2012 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Kiley Barrel Allen St - Somerville, MA

Laboratory Reagent Blank

Client Sample ID:	N/A	Lab Sample ID:	N/A
Date of Collection:	N/A	Matrix	Water
Date of Digestion:	9/6/2012	Final Volume:	50 mL
Date of Analysis:	9/11/2012	Digestate Dilution:	1
Volume Digested:	50 mL	pH:	<2

CAS Number	Parameter	Concentration ug/L	RL ug/L	Qualifier
7429-90-5	Aluminum	ND	110	
7440-36-0	Antimony	ND	20	
7440-38-2	Arsenic	ND	20	
7440-39-3	Barium	ND	20	
7440-41-7	Beryllium	ND	8	
7440-43-9	Cadmium	ND	10	
7440-70-2	Calcium	ND	100	
7440-47-3	Chromium	ND	20	
7440-48-4	Cobalt	ND	20	
7440-50-8	Copper	ND	20	
7439-89-6	Iron	ND	40	
7439-92-1	Lead	ND	20	
7439-95-4	Magnesium	ND	100	
7439-96-5	Manganese	ND	20	
7440-02-0	Nickel	ND	20	
7782-49-2	Selenium	ND	40	
7440-22-4	Silver	ND	10	
7440-28-0	Thallium	ND	40	
7440-62-2	Vanadium	ND	20	
7440-66-6	Zinc	ND	40	

Comments: Thallium reported from 9/12/2012 analysis.

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

METALS MATRIX SPIKE (MS) RESULTS

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32123

COMPOUND	SPIKE ADDED ug/L	SAMPLE CONCENTRATION ug/L	MS CONCENTRATION ug/L	MS % REC	QC LIMITS (% REC)
Aluminum	500	ND	528	106	75 - 125
Antimony	500	ND	490	98	75 - 125
Arsenic	500	ND	478	96	75 - 125
Barium	500	ND	506	101	75 - 125
Beryllium	200	ND	183	92	75 - 125
Cadmium	250	ND	248	99	75 - 125
Chromium	500	ND	516	103	75 - 125
Cobalt	500	ND	506	101	75 - 125
Copper	500	ND	512	102	75 - 125
Iron	500	ND	511	102	75 - 125
Lead	500	ND	502	100	75 - 125
Manganese	500	ND	498	100	75 - 125
Nickel	500	ND	505	101	75 - 125
Selenium	500	ND	446	89	75 - 125
Silver	100	ND	100	100	75 - 125
Thallium	500	ND	532	106	75 - 125
Vanadium	500	ND	512	102	75 - 125
Zinc	500	ND	483	97	75 - 125

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Duplicate Results

Kiley Barrel Allen St - Somerville, MA

Sample ID: AB32147

COMPOUND	SAMPLE RESULT ug/L	SAMPLE DUPLICATE RESULT ug/L	PRECISION RPD %	QC LIMITS RPD (%)
Aluminum	ND	ND	NC	20
Antimony	ND	ND	NC	20
Arsenic	ND	ND	NC	20
Barium	ND	ND	NC	20
Beryllium	ND	ND	NC	20
Cadmium	ND	ND	NC	20
Calcium	ND	ND	NC	20
Chromium	ND	ND	NC	20
Cobalt	ND	ND	NC	20
Copper	ND	ND	NC	20
Iron	ND	ND	NC	20
Lead	ND	ND	NC	20
Magnesium	ND	ND	NC	20
Manganese	ND	ND	NC	20
Nickel	ND	ND	NC	20
Selenium	ND	ND	NC	20
Silver	ND	ND	NC	20
Thallium	ND	ND	NC	20
Vanadium	ND	ND	NC	20
Zinc	ND	ND	NC	20

Comments:

US ENVIRONMENTAL PROTECTION AGENCY
NEW ENGLAND LABORATORY

Laboratory Fortified Blank (LFB) Results

Kiley Barrel Allen St - Somerville, MA

COMPOUND	LFB AMOUNT SPIKED ug/L	LFB RESULT ug/L	LFB RECOVERY %	QC LIMITS %
Aluminum	500	516	103	85 - 115
Antimony	500	479	96	85 - 115
Arsenic	500	469	94	85 - 115
Barium	500	511	102	85 - 115
Beryllium	200	184	92	85 - 115
Cadmium	250	249	100	85 - 115
Calcium	5000	4970	99	85 - 115
Chromium	500	510	102	85 - 115
Cobalt	500	512	102	85 - 115
Copper	500	518	104	85 - 115
Iron	500	523	105	85 - 115
Lead	500	505	101	85 - 115
Magnesium	5000	5080	102	85 - 115
Manganese	500	509	102	85 - 115
Nickel	500	511	102	85 - 115
Selenium	500	437	87	85 - 115
Silver	100	101	101	85 - 115
Thallium	500	538	108	85 - 115
Vanadium	500	506	101	85 - 115
Zinc	500	486	97	85 - 115

Samples in Batch: AB32123, AB32147

PN: 12080053

Page 1 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0001	SS-01A	ARSENIC SCREENING	SOIL	8/22/2012	10:18	1	NONE	N
	12060001-0002	RB-01	VOC	Rinsate water	8/21/2012	14:45	4	HCL PH<2	N
	12060001-0002	RB-01	SVOC	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	PCB	Rinsate water	8/21/2012	14:45	2	None	N
	12060001-0002	RB-01	METALS	Rinsate water	8/21/2012	14:45	1	HNO3 PH<2	N
	12060001-0003	SS-03A	SVOC	SOIL	8/22/2012	11:45	1	none	Y
	12060001-0003	SS-03A	VOC	SOIL	8/22/2012	11:45	1	MEOH	Y
	12060001-0003	SS-03A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0003	SS-03A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	Y
	12060001-0004	SS-03B	SVOC	SOIL	8/22/2012	11:46	1	none	n
	12060001-0004	SS-03B	VOC	SOIL	8/22/2012	11:46	1	MEOH	N
	12060001-0004	SS-03B	% SOLIDS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	METALS ICP	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0004	SS-03B	PCB MS	SOIL	8/22/2012	11:46	1	NONE	N
	12060001-0005	SS-03C	SVOC	SOIL	8/22/2012	11:47	1	none	n
	12060001-0005	SS-03C	VOC	SOIL	8/22/2012	11:47	1	MEOH	N
	12060001-0005	SS-03C	% SOLIDS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0005	SS-03C	METALS ICP	SOIL	8/22/2012	11:47	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

Page 2 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD
R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0005	SS-03C	PCB MS	SOIL	8/22/2012	11:47	1	NONE	N
	12060001-0006	SS-04A	SVOC	SOIL	8/22/2012	11:40	1	none	Y
	12060001-0006	SS-04A	VOC	SOIL	8/22/2012	11:40	1	MEOH	Y
	12060001-0006	SS-04A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0006	SS-04A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	Y
	12060001-0007	SS-32A	SVOC	SOIL	8/22/2012	11:40	1	none	n
	12060001-0007	SS-32A	VOC	SOIL	8/22/2012	11:40	1	MEOH	N
	12060001-0007	SS-32A	% SOLIDS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	METALS ICP	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0007	SS-32A	PCB MS	SOIL	8/22/2012	11:40	1	NONE	N
	12060001-0008	SS-04B	SVOC	SOIL	8/22/2012	11:41	1	none	n
	12060001-0008	SS-04B	VOC	SOIL	8/22/2012	11:41	1	MEOH	N
	12060001-0008	SS-04B	% SOLIDS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	METALS ICP	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0008	SS-04B	PCB MS	SOIL	8/22/2012	11:41	1	NONE	N
	12060001-0009	SS-04C	SVOC	SOIL	8/22/2012	11:42	1	none	n
	12060001-0009	SS-04C	VOC	SOIL	8/22/2012	11:42	1	MEOH	N
	12060001-0009	SS-04C	% SOLIDS	SOIL	8/22/2012	11:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	8:35						

Page 3 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0009	SS-04C	METALS ICP	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0009	SS-04C	PCB MS	SOIL	8/22/2012	11:42	1	NONE	N
	12060001-0010	SS-05A	SVOC	SOIL	8/22/2012	12:50	1	none	n
	12060001-0010	SS-05A	VOC	SOIL	8/22/2012	12:50	1	MEOH	N
	12060001-0010	SS-05A	% SOLIDS	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0010	SS-05A	METALS SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
✓	12060001-0010	SS-05A	PCB SCREENING	SOIL	8/22/2012	12:50	1	NONE	N
	12060001-0011	SS-05B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0011	SS-05B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0011	SS-05B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0011	SS-05B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0011	SS-05B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0012	SS-05C	SVOC	SOIL	8/22/2012	13:05	1	none	n
	12060001-0012	SS-05C	VOC	SOIL	8/22/2012	13:05	1	MEOH	N
	12060001-0012	SS-05C	% SOLIDS	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0012	SS-05C	METALS SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
✓	12060001-0012	SS-05C	PCB SCREENING	SOIL	8/22/2012	13:05	1	NONE	N
	12060001-0013	SS-06A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0013	SS-06A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0013	SS-06A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0013	SS-06A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
✓	12060001-0013	SS-06A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	Y
	12060001-0014	SS-33A	SVOC	SOIL	8/22/2012	12:45	1	none	n
	12060001-0014	SS-33A	VOC	SOIL	8/22/2012	12:45	1	MEOH	N
	12060001-0014	SS-33A	% SOLIDS	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0014	SS-33A	METALS SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
✓	12060001-0014	SS-33A	PCB SCREENING	SOIL	8/22/2012	12:45	1	NONE	N
	12060001-0015	SS-06B	SVOC	SOIL	8/22/2012	13:00	1	none	n
	12060001-0015	SS-06B	VOC	SOIL	8/22/2012	13:00	1	MEOH	N
	12060001-0015	SS-06B	% SOLIDS	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0015	SS-06B	METALS SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
✓	12060001-0015	SS-06B	PCB SCREENING	SOIL	8/22/2012	13:00	1	NONE	N
	12060001-0016	SS-06C	SVOC	SOIL	8/22/2012	13:15	1	none	n
	12060001-0016	SS-06C	VOC	SOIL	8/22/2012	13:15	1	MEOH	N
	12060001-0016	SS-06C	% SOLIDS	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0016	SS-06C	METALS SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
✓	12060001-0016	SS-06C	PCB SCREENING	SOIL	8/22/2012	13:15	1	NONE	N
	12060001-0017	SS-07A	ARSENIC SCREENING	SOIL	8/22/2012	11:20	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christine Ly	8/23		8/23/12	8:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0018	SS-08A	SVOC	SOIL	8/22/2012	11:12	1	none	n
	12060001-0018	SS-08A	VOC	SOIL	8/22/2012	11:12	1	MEOH	N
	12060001-0018	SS-08A	% SOLIDS	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	METALS ICP	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0018	SS-08A	PCB SCREENING	SOIL	8/22/2012	11:12	1	NONE	N
	12060001-0019	SS-08B	SVOC	SOIL	8/22/2012	11:13	1	none	n
	12060001-0019	SS-08B	VOC	SOIL	8/22/2012	11:13	1	MEOH	N
	12060001-0019	SS-08B	% SOLIDS	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	METALS ICP	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0019	SS-08B	PCB SCREENING	SOIL	8/22/2012	11:13	1	NONE	N
	12060001-0020	SS-08C	SVOC	SOIL	8/22/2012	11:14	1	none	n
	12060001-0020	SS-08C	VOC	SOIL	8/22/2012	11:14	1	MEOH	N
	12060001-0020	SS-08C	% SOLIDS	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	METALS ICP	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0020	SS-08C	PCB SCREENING	SOIL	8/22/2012	11:14	1	NONE	N
	12060001-0021	SS-09A	SVOC	SOIL	8/22/2012	10:33	1	none	n
	12060001-0021	SS-09A	VOC	SOIL	8/22/2012	10:33	1	MEOH	N
	12060001-0021	SS-09A	% SOLIDS	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0021	SS-09A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0021	SS-09A	PCB SCREENING	SOIL	8/22/2012	10:33	1	NONE	Y
	12060001-0022	SS-34A	METALS SCREENING	SOIL	8/22/2012	10:33	1	NONE	N
	12060001-0023	SS-09B	SVOC	SOIL	8/22/2012	10:34	1	none	n
	12060001-0023	SS-09B	VOC	SOIL	8/22/2012	10:34	1	MEOH	N
	12060001-0023	SS-09B	% SOLIDS	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	METALS SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0023	SS-09B	PCB SCREENING	SOIL	8/22/2012	10:34	1	NONE	N
	12060001-0024	SS-09C	SVOC	SOIL	8/22/2012	10:35	1	none	n
	12060001-0024	SS-09C	VOC	SOIL	8/22/2012	10:35	1	MEOH	N
	12060001-0024	SS-09C	% SOLIDS	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	METALS SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0024	SS-09C	PCB SCREENING	SOIL	8/22/2012	10:35	1	NONE	N
	12060001-0025	SS-10A	METALS SCREENING	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0026	RB-02	VOC	Rinsate water	8/22/2012	13:15	4	HCL PH<2	N
	12060001-0026	RB-02	SVOC	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	PCB	Rinsate water	8/22/2012	13:15	2	None	N
	12060001-0026	RB-02	METALS	Rinsate water	8/22/2012	13:15	1	HNO3 PH<2	N
	12060001-0031	SS-12A	METALS SCREENING	SOIL	8/21/2012	12:04	1	NONE	N
	12060001-0032	SS-13A	METALS ICP	SOIL	8/21/2012	14:24	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 7 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0032	SS-13A	SVOC	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0032	SS-13A	VOC	SOIL	8/21/2012	14:24	1	MEOH	N
	12060001-0032	SS-13A	% SOILDS	SOIL	8/21/2012	14:24	1	NONE	N
✓	12060001-0032	SS-13A	PCB SCREENING	SOIL	8/21/2012	14:24	1	NONE	N
	12060001-0033	SS-35A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0034	SS-13B	METALS ICP	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	SVOC	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0034	SS-13B	VOC	SOIL	8/21/2012	14:25	1	MEOH	N
	12060001-0034	SS-13B	% SOILDS	SOIL	8/21/2012	14:25	1	NONE	N
✓	12060001-0034	SS-13B	PCB SCREENING	SOIL	8/21/2012	14:25	1	NONE	N
	12060001-0035	SS-13C	METALS ICP	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	SVOC	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0035	SS-13C	VOC	SOIL	8/21/2012	14:26	1	MEOH	N
	12060001-0035	SS-13C	% SOILDS	SOIL	8/21/2012	14:26	1	NONE	N
✓	12060001-0035	SS-13C	PCB SCREENING	SOIL	8/21/2012	14:26	1	NONE	N
	12060001-0036	SS-14A	METALS ICP	SOIL	8/21/2012	11:35	1	NONE	N
	12060001-0037	SS-14B	METALS ICP	SOIL	8/21/2012	11:26	1	NONE	N
	12060001-0038	SS-14C	METALS ICP	SOIL	8/21/2012	11:38	1	NONE	N
	12060001-0042	SS-16A	METALS ICP	SOIL	8/21/2012	13:57	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0042	SS-16A	SVOC	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	VOC	SOIL	8/21/2012	13:57	1	MEOH	N
	12060001-0042	SS-16A	PCB MS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0042	SS-16A	% SOLIDS	SOIL	8/21/2012	13:57	1	NONE	N
	12060001-0043	SS-16B	METALS ICP	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	SVOC	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	VOC	SOIL	8/21/2012	13:58	1	MEOH	N
	12060001-0043	SS-16B	PCB MS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0043	SS-16B	% SOLIDS	SOIL	8/21/2012	13:58	1	NONE	N
	12060001-0044	SS-16C	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0044	SS-16C	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0044	SS-16C	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0045	SS-17A	METALS ICP	SOIL	8/21/2012	11:22	1	NONE	N
	12060001-0046	SS-17B	METALS ICP	SOIL	8/21/2012	11:23	1	NONE	N
	12060001-0047	SS-17C	METALS ICP	SOIL	8/21/2012	11:24	1	NONE	N
	12060001-0048	SS-18A	METALS ICP	SOIL	8/21/2012	15:00	1	NONE	N
	12060001-0049	SS-18B	METALS ICP	SOIL	8/21/2012	15:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0050	SS-18C	METALS ICP	SOIL	8/21/2012	15:02	1	NONE	N
	12060001-0051	SS-19A	METALS ICP	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	SVOC	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	VOC	SOIL	8/21/2012	13:27	1	MEOH	N
	12060001-0051	SS-19A	% SOLIDS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0051	SS-19A	PCB MS	SOIL	8/21/2012	13:27	1	NONE	N
	12060001-0052	SS-36A	METALS ICP	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	SVOC	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	VOC	SOIL	8/22/2012	11:45	1	MEOH	N
	12060001-0052	SS-36A	% SOLIDS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0052	SS-36A	PCB MS	SOIL	8/22/2012	11:45	1	NONE	N
	12060001-0053	SS-19C	METALS ICP	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	SVOC	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	VOC	SOIL	8/21/2012	13:29	1	MEOH	N
	12060001-0053	SS-19C	% SOLIDS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0053	SS-19C	PCB MS	SOIL	8/21/2012	13:29	1	NONE	N
	12060001-0054	SS-20A	METALS ICP	SOIL	8/21/2012	11:13	1	NONE	N
	12060001-0055	SS-20B	METALS ICP	SOIL	8/21/2012	11:14	1	NONE	N
	12060001-0056	SS-20C	METALS ICP	SOIL	8/21/2012	11:16	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Christa Ly	8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0057	SS-21A	METALS ICP	SOIL	8/21/2012	14:55	1	NONE	N
	12060001-0058	SS-21B	METALS ICP	SOIL	8/21/2012	14:56	1	NONE	N
	12060001-0059	SS-21C	METALS ICP	SOIL	8/21/2012	14:57	1	NONE	N
	12060001-0060	SS-22A	METALS SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	SVOC	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0060	SS-22A	VOC	SOIL	8/21/2012	12:20	1	MEOH	N
	12060001-0060	SS-22A	% SOLIDS	SOIL	8/21/2012	12:20	1	NONE	N
✓	12060001-0060	SS-22A	PCB SCREENING	SOIL	8/21/2012	12:20	1	NONE	N
	12060001-0061	SS-22B	METALS SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	SVOC	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0061	SS-22B	VOC	SOIL	8/21/2012	12:21	1	MEOH	N
	12060001-0061	SS-22B	% SOLIDS	SOIL	8/21/2012	12:21	1	NONE	N
✓	12060001-0061	SS-22B	PCB SCREENING	SOIL	8/21/2012	12:21	1	NONE	N
	12060001-0062	SS-22C	METALS SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	SVOC	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0062	SS-22C	VOC	SOIL	8/21/2012	12:23	1	MEOH	N
	12060001-0062	SS-22C	% SOLIDS	SOIL	8/21/2012	12:23	1	NONE	N
✓	12060001-0062	SS-22C	PCB SCREENING	SOIL	8/21/2012	12:23	1	NONE	N
	12060001-0063	SS-23A	METALS SCREENING	SOIL	8/21/2012	11:01	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4.35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0064	SS-23B	METALS SCREENING	SOIL	8/21/2012	11:03	1	NONE	N
	12060001-0065	SS-23C	METALS SCREENING	SOIL	8/21/2012	11:05	1	NONE	N
	12060001-0066	SS-24A	METALS SCREENING	SOIL	8/21/2012	14:45	1	NONE	N
	12060001-0067	SS-24B	METALS SCREENING	SOIL	8/21/2012	14:46	1	NONE	N
	12060001-0068	SS-24C	METALS SCREENING	SOIL	8/21/2012	14:47	1	NONE	N
	12060001-0069	SS-25A	METALS SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	SVOC	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	VOC	SOIL	8/21/2012	11:53	1	MEOH	N
	12060001-0069	SS-25A	% SOLIDS	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0069	SS-25A	PCB SCREENING	SOIL	8/21/2012	11:53	1	NONE	N
	12060001-0070	SS-25B	METALS SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	SVOC	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	VOC	SOIL	8/21/2012	11:54	1	MEOH	N
	12060001-0070	SS-25B	% SOLIDS	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0070	SS-25B	PCB SCREENING	SOIL	8/21/2012	11:54	1	NONE	N
	12060001-0071	SS-25C	METALS SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	SVOC	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0071	SS-25C	VOC	SOIL	8/21/2012	11:55	1	MEOH	N
	12060001-0071	SS-25C	% SOLIDS	SOIL	8/21/2012	11:55	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinqulshed By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
✓	12060001-0071	SS-25C	PCB SCREENING	SOIL	8/21/2012	11:55	1	NONE	N
	12060001-0072	SS-26A	METALS SCREENING	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	SVOC	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	VOC	SOIL	8/21/2012	10:40	1	MEOH	N
	12060001-0072	SS-26A	% SOLIDS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0072	SS-26A	PCB MS	SOIL	8/21/2012	10:40	1	NONE	N
	12060001-0073	SS-26B	METALS SCREENING	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	SVOC	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	VOC	SOIL	8/21/2012	10:41	1	MEOH	N
	12060001-0073	SS-26B	% SOLIDS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0073	SS-26B	PCB MS	SOIL	8/21/2012	10:41	1	NONE	N
	12060001-0074	SS-26C	METALS SCREENING	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	SVOC	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	VOC	SOIL	8/21/2012	10:42	1	MEOH	N
	12060001-0074	SS-26C	% SOLIDS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0074	SS-26C	PCB MS	SOIL	8/21/2012	10:42	1	NONE	N
	12060001-0075	SS-27A	METALS SCREENING	SOIL	8/21/2012	14:40	1	NONE	N
	12060001-0076	SS-27B	METALS SCREENING	SOIL	8/21/2012	14:41	1	NONE	N
	12060001-0077	SS-27C	METALS SCREENING	SOIL	8/21/2012	14:42	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0078	SS-28A	METALS ICP	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	SVOC	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	VOC	SOIL	8/21/2012	14:20	1	MEOH	N
	12060001-0078	SS-28A	PCB MS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0078	SS-28A	% SOLIDS	SOIL	8/21/2012	14:20	1	NONE	N
	12060001-0079	SS-29A	METALS ICP	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	SVOC	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	VOC	SOIL	8/21/2012	13:59	1	MEOH	N
	12060001-0079	SS-29A	PCB MS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0079	SS-29A	% SOLIDS	SOIL	8/21/2012	13:59	1	NONE	N
	12060001-0080	SS-30A	METALS ICP	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	SVOC	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	VOC	SOIL	8/22/2012	09:43	1	MEOH	N
	12060001-0080	SS-30A	PCB MS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0080	SS-30A	% SOLIDS	SOIL	8/22/2012	09:43	1	NONE	N
	12060001-0081	SS-30C	METALS ICP	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	SVOC	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0081	SS-30C	VOC	SOIL	8/22/2012	09:45	1	MEOH	N
	12060001-0081	SS-30C	PCB MS	SOIL	8/22/2012	09:45	1	NONE	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

Page 14 of 15

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0081	SS-30C	% SOLIDS	SOIL	8/22/2012	09:45	1	NONE	N
	12060001-0082	SS-31A	METALS ICP	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	SVOC	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	VOC	SOIL	8/22/2012	10:00	1	MEOH	N
	12060001-0082	SS-31A	PCB MS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0082	SS-31A	% SOLIDS	SOIL	8/22/2012	10:00	1	NONE	N
	12060001-0083	SS-31B	METALS ICP	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	SVOC	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	VOC	SOIL	8/22/2012	10:01	1	MEOH	N
	12060001-0083	SS-31B	PCB MS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0083	SS-31B	% SOLIDS	SOIL	8/22/2012	10:01	1	NONE	N
	12060001-0084	SS-31C	METALS ICP	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	SVOC	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	VOC	SOIL	8/22/2012	10:02	1	MEOH	N
	12060001-0084	SS-31C	PCB MS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0084	SS-31C	% SOLIDS	SOIL	8/22/2012	10:02	1	NONE	N
	12060001-0085	SS-19B	METALS ICP	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	SVOC	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	VOC	SOIL	8/21/2012	13:28	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

USEPA
DateShipped: 8/23/2012
CarrierName: START
Sampler:

CHAIN OF CUSTODY RECORD

R01-120815-CC/MA
John Burton
978-552-2130

No: 1-081512-072514-0001
Cooler #:
Lab: NERL
Lab Phone: 617-918-8340

Lab #	Sample #	Location	Analyses	Matrix	Collected	Sample Time	Numb Cont	Preservative	MS/MSD
	12060001-0085	SS-19B	% SOLIDS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0085	SS-19B	PCB MS	SOIL	8/21/2012	13:28	1	NONE	N
	12060001-0086	SS-30B	METALS ICP	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	SVOC	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	VOC	SOIL	8/22/2012	09:44	1	MEOH	N
	12060001-0086	SS-30B	PCB MS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0086	SS-30B	% SOLIDS	SOIL	8/22/2012	09:44	1	NONE	N
	12060001-0087	PE-IS6664	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0088	PE-IS6808	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0089	PE-IS6660	METALS	Soil	8/22/2012	16:00	1	None	N
	12060001-0090	PE-SS2092	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0091	PE-SS1406	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0092	PE-SS2028	SVOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0094	PE-MLV0018	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0095	PE-MLV0069	VOC	Soil	8/22/2012	16:00	1	None	N
	12060001-0096	PE-TT2608	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0097	PE-AS1377	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0098	PE-AS1375	PCB	Soil	8/22/2012	16:00	1	None	N
	12060001-0099	LB-01	voc	Soil	8/22/2012	08:00	1	MEOH	N

Special Instructions: Please send sample results to Cosmo Caterino at caterino.cosmo@eps.gov. Thank you.

SAMPLES TRANSFERRED FROM
CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
		8/23/12		8/23/12	4:35						

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
5 POST OFFICE SQUARE – SUITE 100
BOSTON, MASSACHUSETTS 02109-3912

CONTAINS ENFORCEMENT-SENSITIVE INFORMATION

MEMORANDUM

DATE:

SUBJ: Request for a Removal Action at the Kiley Barrel Allen Street Site,
Somerville, Middlesex, MA - **Action Memorandum**

FROM: Cosmo Caterino, On-Scene Coordinator cc
Emergency Response and Removal Section II

THRU: Steven R. Novick, Chief
Emergency Response and Removal Section II

David McIntyre, Acting Chief DMcI.
Emergency Planning & Response Branch

TO: James T. Owens III, Director
Office of Site Remediation and Restoration

I. PURPOSE

The purpose of this Action Memorandum is to request and document approval of the proposed removal action at the Kiley Barrel Allen Street Site (the Site) in Somerville, MA. Hazardous substances present in soil at the Site, if not addressed by implementing the response actions selected in this Action Memorandum, will continue to pose a threat to human health and the environment. There are no nationally significant or precedent-setting issues associated with this Site, and there has been no use of the OSC's $200,000 warrant authority.

II. SITE CONDITIONS AND BACKGROUND

CERCLIS ID# :	MAN000106119
SITE ID# :	01KB
CATEGORY :	Time-Critical

A. Site Description

1. Removal site evaluation

In November of 2011, the Massachusetts Department of Environmental Protection (MassDEP) requested assistance from the United States Environmental Protection Agency's (U.S.EPA) Region I Emergency Planning and Response Branch (EPRB) to address and determine the extent of the arsenic-contaminated soils on the residential properties adjacent to the former Kiley Barrel Site. Prior to this the MassDEP and the U.S. EPA had discussed the residential properties as a potential site, however, it was unclear as to whether or not the properties had been contaminated by the former Kiley Barrel Site or if the contamination was consistent with fill material used in the area.

The MassDEP collected and analyzed samples in the neighborhood and determined that the elevated arsenic levels were associated with drum cleaning operations at the former Kiley Barrel site. Other contaminants present appear to be consistent with background levels associated with fill material in the area and urbanization. While the residences are adjacent to the former Kiley Barrel Site, they are considered to be a separate action.

2. Physical location

Kiley Barrel Allen Street Site is comprised of 3 residential properties on Allen Street, Somerville, Middlesex County, MA, adjacent to the former Kiley Barrel Site. The center of the properties is approximately located at 42.378 Latitude and -71.0935 Longitude. The Site is zoned as commercial/residential and according to the EPA Region 1 Environmental Justice Mapping Tool, is in a minority Environmental Justice area.

3. Site characteristics

The Site consists of 1 three-story and 2 two-story residential buildings. Elevated levels of arsenic in the yards are believed to be due to surface runoff from the adjacent Kiley Barrel Site.

The owners and tenants have direct access to the contaminated areas. The City of Somerville implemented an interim measure to minimize contact by covering exposed soil with a geotextile fabric and 6 inches of crushed stone. Plants are now starting to break through the cover. There are more than 55,000 people, 16 public and private schools, and 2 hospitals located within a square mile of the Site.

\

4. Release or threatened release into the environment of a hazardous substance, or pollutant or contaminant

Hazardous substances at the Site include, but are not limited to, arsenic. Threat of release of the Arsenic to adjacent areas and other receptors exists, particularly during adverse weather conditions.

5. NPL status

The Site is not currently on the National Priorities List, and has not received a Hazardous Ranking System rating.

B. Other Actions to Date

1. Previous actions

There have been no previous actions taken by EPA Region I at the Site.

2. Current actions

EPA Region I is conducting further assessment work to determine the extent of the contamination.

C. State and Local Authorities' Roles

1. State and local actions to date

The U.S. EPA and MassDEP Brownfields programs have been overseeing actions by the City of Somerville on the adjacent Kiley Barrel site including proposed remediation of groundwater contaminated with volatile organics which extends under the Site.

2. Potential for continued State/local response

The actions by EPA will be limited to a depth of 3 feet of the surface soil for Arsenic contamination. TheMassDEP may be interested in contamination other than the arsenic or at depths greater than three feet. It is believed that below a depth of three feet, the subsurface material consists of urban fill. This will be confirmed post excavation. In addition, the surface soils contain elevated levels of lead that are ubiquitous in the area and are not associated with the source of the arsenic contamination. The elevated lead levels continue on to other properties in the area and the MassDEP may wish to address these in another manner. The MassDEP will continue oversite of the groundwater remediation.

III. THREATS TO PUBLIC HEALTH OR WELFARE OR THE ENVIRONMENT, AND STATUTORY AND REGULATORY AUTHORITIES

Arsenic cannot be destroyed in the environment. It can only change its form or become attached to, or separated from particles. Inhalation of inorganic arsenic may cause respiratory irritation, nausea, skin effects, and increased risk of lung cancer. Limited data suggest that dermal absorption of arsenic is very low, however further data would be useful to establish whether arsenic uptake occurs from contact with contaminated soil or water, since humans may be exposed by these routes near hazardous waste sites. EPA and the Department of Health and Human Services (DHHS) have determined that arsenic is a human carcinogen.

Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants; [§300.415(b)(2)(i)];

The Site consists of three residential properties with contaminated soil. The owners and tenants including children not only had access to the contaminated areas, some had eaten vegetables from gardens in the contaminated areas. The gardens were terminated after the contamination was discovered. The health risk will remain until the contamination is removed or access is restricted.

High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate [§300.415(b)(2)(iv)];

The surface contamination appears to have been caused by surface water runoff and it is likely that the contamination will continue to migrate if not addressed.

Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released [§300.415(b)(2)(v)];

Elevated levels of arsenic and other substances have been identified in the surface soils. Surface water runoff from precipitation may carry these substances to other residential properties.

The availability of other appropriate Federal or State response mechanisms to respond to the release [§300.415(b)(2)(vii)];

State and local agencies are addressing the soil and groundwater contamination at the adjacent site, and the groundwater contamination on these residential properties. This Action Memorandum is solely to address the arsenic contamination in the surface soils on the residential properties. The MassDEP will take the lead regarding contamination associated with the urban fill and lead on these and neighboring properties.

IV. ENDANGERMENT DETERMINATION

Actual or threatened releases of hazardous substances or pollutants or contaminants from this Site, if not addressed by implementing the response action selected in this Action Memorandum, may present an imminent and substantial endangerment to public health, welfare, or the environment.

V. PROPOSED ACTIONS AND ESTIMATED COSTS

A. Proposed Actions

1. Proposed action description

- Conduct a site walk with the cleanup contractor to assess layout of the Site and determine required equipment, personnel and utilities;
- Develop and implement a site-specific Health and Safety Plan (HASP);
- Develop a site-specific work plan;
- Mobilize personnel and equipment;
- Clear vegetation and debris as needed;
- Delineate work zones and decontamination area;
- Perform air monitoring as needed;
- Excavate contaminated soils and prepare for off-site disposal;
- Coordinate transportation and disposal (T&D) of hazardous substances to an EPA-approved off-site disposal facility;
- Repair response-related damages; and
- Demobilize resources.

2. Community relations

The OSC will continue to coordinate with Superfund Community Relations personnel, MassDEP, Brownfields, City of Somerville, and other involved entities. If necessary, the OSC will coordinate a public information session with the surrounding community, and will issue press releases and fact sheets as required.

3. Contribution to remedial performance

The cleanup proposed in this Action Memorandum is designed to mitigate the threats to human health and the environment posed by the Site. The actions taken at the Site would be consistent with and will not impede any future responses.

4. Description of alternative technologies

No alternative technologies will be used.

5. Applicable or relevant and appropriate requirements (ARARs)

Federal ARARs:

40 CFR Part 262 Standards Applicable to Generators of Hazardous Waste:

Subpart B - The Manifest
262.20 : General requirements for manifesting
262.21 : Acquisition of manifests
262.22 : Number of copies of manifests
262.23 : Use of the manifest

Subpart C - Pre-Transport Requirements
262.30 : Packaging
262.31 : Labeling
262.32 : Marking

Subpart D - Recordkeeping and Reporting
262.40 : Recordkeeping

40 CFR Part 264 Hazardous Waste Regulations - RCRA Subtitle C:
268-270 : Hazardous and Solid Waste Amendments Land Disposal Restrictions Rule

40 CFR Part 300.440 Procedures for Planning and Implementing Off-Site Response Actions (Off-Site Rule)

40 CFR Part 761.61: TSCA requirements for cleanup and disposal of PCBs

40 CFR Part 761.79: TSCA decontamination of equipment used

40 CFR Part 61: Clean Air Act standards for controlling dust

40 CFR Sections 122.26(c)(ii)(C) and 122.44(k): Clean Water Act NPDES regulations for storm water control and management

State ARARs:

The OSC will coordinate with State officials to identify additional State ARARs, if any. In accordance with the National Contingency Plan and EPA Guidance Documents, the OSC will determine the applicability and practicability of complying with each ARAR which is identified in a timely manner.

6. Project schedule

The planned start date is during the month of September 2012. It is anticipated that excavation may take less than one month, however, transportation and disposal may take considerably longer.

B. Estimated Costs

COST CATEGORY		CEILING
REGIONAL REMOVAL ALLOWANCE COSTS:		
ERRS Contractor Interagency Agreement		$397,000.00 $ 0.00
OTHER EXTRAMURAL COSTS NOT FUNDED FROM THE REGIONAL ALLOWANCE:		
START Contractor		$60,000.00
Extramural Subtotal		$457,000.00
Extramural Contingency	10%	$45,700.00
TOTAL, REMOVAL ACTION CEILING		$502,700.00

VI. EXPECTED CHANGE IN THE SITUATION SHOULD ACTION BE DELAYED OR NOT TAKEN

In absence of the response action described herein, conditions at the Site will continue to deteriorate, and the threats associated with the presence of Arsenic contamination in soil will persist. Delayed action will increase public health risk and environmental risks posed by inhalation, ingestion, direct exposure to the aforementioned hazardous substances.

VII. OUTSTANDING POLICY ISSUES

There is no precedent-setting policy issues associated with this Site.

VIII. ENFORCEMENT ... For Internal Distribution Only

See attached Enforcement Strategy.

The total EPA costs for this removal action based on full-time accounting practices that will be eligible for cost recovery are estimated to be $502,700.00 (extramural costs) + $130,000 (EPA intramural costs) = $632,700 X 1.3284 (regional indirect rate) = $840,479[1].

IX. RECOMMENDATION

This decision document represents the selected removal action for the Kiley Barrel Allen Street Site in Somerville, MA, developed in accordance with CERCLA, as amended, and is not inconsistent with the National Contingency Plan. The basis for this decision will be documented in the administrative record to be established for the Site.

Conditions at the Site meet the NCP Section 300.415 (b) (2) criteria for a removal action due to the following:

Actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances or pollutants or contaminants [§300.415(b)(2)(i)];

High levels of hazardous substances or pollutants or contaminants in soils largely at or near the surface, that may migrate [§300.415(b)(2)(iv)];

Weather conditions that may cause hazardous substances or pollutants or contaminants to migrate or be released [§300.415(b)(2)(v)];

The availability of other appropriate Federal or State response mechanisms to respond to the release [§300.415(b)(2)(vii)];

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[1] Direct Costs include direct extramural costs $502,700 and direct intramural costs $130,000. Indirect costs are calculated based on an estimated indirect cost rate expressed as a percentage of site specific costs 32.84% x $632,700, consistent with the full accounting methodology effective October 2, 2000. These estimates do not include pre-judgment interest, do not take into account other enforcement costs, including Department of Justice costs, and may be adjusted during the course of a removal action. The estimates are for illustrative purposes only and their use is not intended to create any rights for responsible parties. Neither the lack of a total cost estimate nor deviation of actual total costs from this estimate will affect the United States' right to cost recovery.

I recommend that you approve the proposed removal action. The total extramural removal action project ceiling if approved will be $502,700.

APPROVAL:______________________ DATE: 8.14.12

DISAPPROVAL:______________________ DATE:__________

Administrative Record File Available for the Kiley Barrel Allen Street Site Removal Action

The U.S. Environmental Protection Agency (EPA) announces that the Administrative Record File for the removal action at the Kiley Barrel Allen Street Site, Somerville, MA, is available for review. EPA seeks to inform the public of the availability of the Administrative Record File and to encourage the public to review and comment on it. Specific removal activities include, but are not limited to, the following: clearing vegetation and debris as needed; performing air monitoring as needed; excavating arsenic-contaminated soil; coordinating transportation and disposal (T&D) of hazardous substances to an EPA-approved off-site disposal facility; and repairing response-related damages.

The Administrative Record File is the collection of documents that formed the basis for the selection of a removal action at the site. Documents in the Administrative Record File include the Action Memorandum and the Site Investigation Closure Memorandum.

The Administrative Record File is available for review at the:

- U.S. EPA Records Center, 5 Post Office Square, Suite 100, Boston, MA, 02109-3912, (617) 918-1440, by appointment.
- Somerville Public Library, 79 Highland Avenue, Somerville, MA, 02143, (617) 623-5000.

Written comments on the Administrative Record File should be sent to: On-Scene Coordinator Cosmo Caterino, Mail Code OSRR02-2, U.S. EPA Region I, 5 Post Office Square, Suite 100, Boston, MA, 02109-3912. Comments should be sent to the On-Scene Coordinator within 30 days of this announcement.

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